

# Opto semiconductor components 2025

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Japanese



English



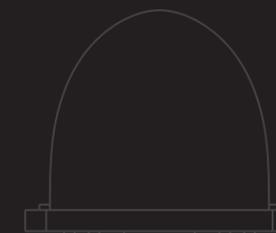
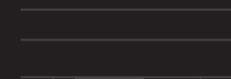
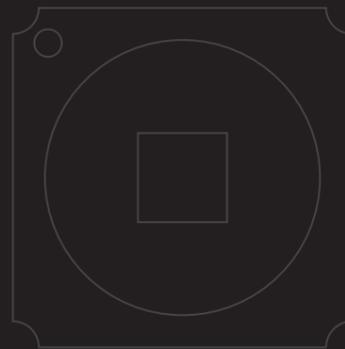
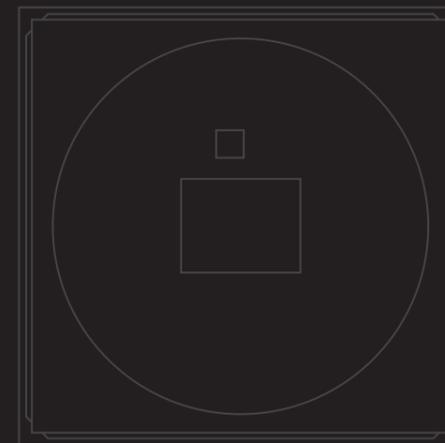
Simplified Chinese

[ ULTRAVIOLET LEDs ]

[ INFRARED VCSELs & LEDs ]

[ DETECTORs & SENSORs ]

[ VISIBLE LIGHT LEDs ]



# Opto semiconductor components 2025

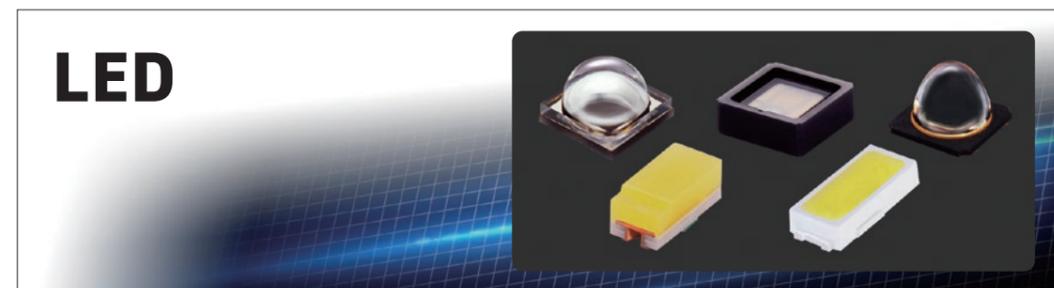
## スタンレー電気の電子事業製品群

スタンレー電気は、自動車機器製品、コンポーネンツ製品、電子応用製品の製品販売を主な事業内容とし、各事業に関連するサービス等の事業活動を展開しています。

### Stanley Electric's Electronics Business Product Line

Stanley's principal business activities include the sale of automotive equipment, components, and electronic application products, as well as services and other business activities related to its various businesses are being developed.

## コンポーネンツ製品 Components Products



### LED

#### LCD LCDs



#### 冷陰極管 Cold Cathode Lamp



## 電子応用製品 Electronic Applied Products

#### UV除菌製品 UV Sanitizing Products



#### LED照明 LED Lighting

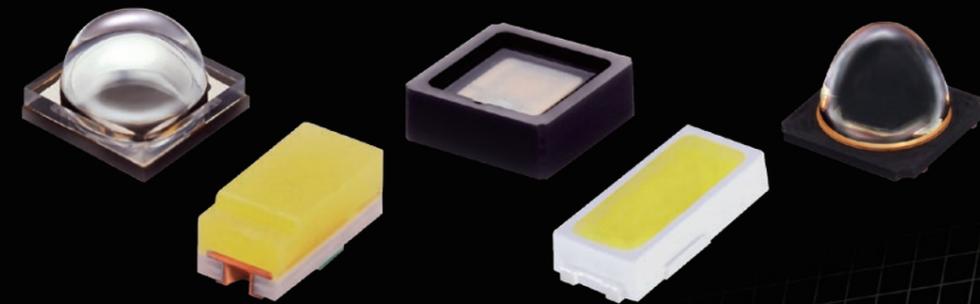


#### その他製品

操作パネル、液晶用バックライトユニット、医療用光源ユニット等についてもカスタム対応しています。  
We also accommodate customers needs for operation panels, backlight units for LCDs, and light source units for medical applications.



## スタンレー電気の光半導体 Stanley Electric's Opto-Semiconductors



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紫外線または赤外レーザー光を発する製品のため、取り扱いに注意が必要です。  
As the products emits ultraviolet rays or infrared laser lights, it must be handled with care.



2011/65/EU, (EU)2015/863  
対象10物質 規制準拠  
10 Substances regulation compliant



鉛フリーはんだ耐熱製品  
Lead-free solder heat resistant product.

# 紫外

深紫外LED UV-C LEDs (Deep-UV)  
近紫外LED UV-A LEDs (Near-UV)

# ULTRAVIOLET

高い除菌性能を持つ波長265nmの深紫外LEDを、当社製品トップクラスの高出力200mWまでラインアップし、除菌アプリケーションに対応します。

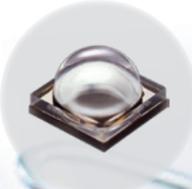
Deep ultraviolet LEDs of a wavelength 265nm with high sterilization performance; the lineup covers output power from low to our highest 200 mW, to support variety of sterilization applications.

## 特徴 Features

- 小型 Compact size
- 水銀フリー Mercury-free
- 瞬時点灯 Instant On/Off



浄水器  
Water Purifier



## 水除菌

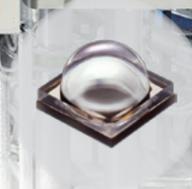
Water sterilization

浄水器等の小流量から産業・浄水場等の中・大流量まで、流水除菌装置用、ため水等タンク内除菌ユニット用

For running water, from small flow rate such as water purifiers, medium to large flow rate such as industrial and water purification plants, and for stored water in tanks for reservoir water, etc.



工業用原料水  
Raw Water for Industrial Use



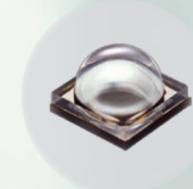
給湯器  
Water Heater

## 表面除菌

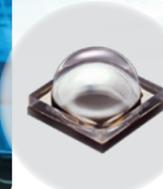
Surface sterilization

公共施設などで共用する設備・備品等の除菌装置用、医療用備品の除菌装置用

For shared equipment in public facilities, medical equipment, etc.



医療機器  
Medical Sterilization  
Equipment



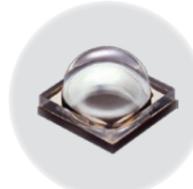
除菌庫  
Sterilization Cabinet

## 空気除菌

Air sterilization

医療現場、ホテル・飲食店、電車内等不特定多数の人が集まる場所での空気除菌機用、また近紫外LEDは光触媒とセットでの消臭機能を実現

For places where an unspecified number of people gather, such as in medical facilities, hotels, restaurants, and on trains. Near ultraviolet LEDs with photocatalyst can be used for deodorizing applications.



空気除菌器  
Air Cleaner

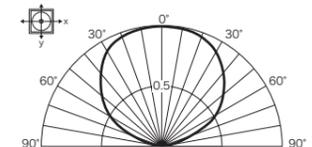




Ta=25°C

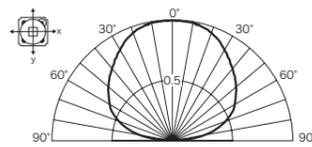
パッケージ Package	品名 Part name	電気的光学的特性 / Electro-optical characteristics					熱的特性 / Thermal characteristics		絶対最大定格 / Absolute maximum ratings					標準梱包数量 Standard qty./Reel	WEB		
		ピーク発光波長 Peak wavelength $\lambda_p$ Typ.	放射束 Radiant flux $\Phi_e$ Typ.	順電圧 Forward voltage $V_F$ Typ.   Max.		指向半値角 Half-intensity angle $2\theta_{1/2}$ ( $\theta_x/\theta_y$ )	指向特性 Spatial distribution	選別電流 Sorting current $I_F$	熱抵抗 【ジャンクション-はんだ付け位置】 Thermal resistance [Junction - solder point] Rth(j-s) Typ.   Max.	順電流 Forward current $I_F$	順電流低減率 Forward current decrease rate $\Delta I_F$	Derating start temp. $T_s$	ジャンクション温度 Junction temperature $T_j$			動作温度 Operating temperature $T_{opr}$	保存温度 Storage temperature $T_{stg}$
単位 (Units)		nm	mW	V		deg.	-	mA	°C/W	mA	mA/°C	°C	°C	°C	°C	pcs.	

■ UV-C LEDs (Deep-UV)

L3.6 x W3.6 x H2.36	 40mg	ZEUBE265	265	70	6.9	8.0	120 / 120		440	6.0	7.5	100 ~ 500	13.7	78.4	115	-40~+100	-40~+115	800	
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※製品画像は代表的なものです / All pictures shown are for illustration purposes only. Actual product may vary due to product enhancement.

■ UV-A LEDs (Near-UV)

L3.5 x W3.5 x H2.05	 31mg	LZU4E365-500	365	660	3.4	4.0	130 / 130		350	5.0	7.0	100 ~ 500	6.0	35	100	-40~+85	-40~+100	500	
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※製品画像は代表的なものです / All pictures shown are for illustration purposes only. Actual product may vary due to product enhancement.



警告

- ・点灯中の紫外LEDからは強い紫外線が出ています。
- ・点灯中の紫外LEDを肉眼で決して直視しないでください。目や皮膚に直接光が当たると有害な影響があります。
- ・やむを得ず点灯中の製品を観察する場合には、必ず紫外線をカットする防護メガネを使用し、同様に皮膚に対しても露出部を無くし、保護マスクや手袋などを使用してください。また、製品使用時においても人体に影響の無い様、光漏れ等に対して十分な安全対策を講じてください。
- ・この紫外LEDを使用した製品にはその旨警告表示をしてください。
- ・幼児の手の届かないところに置いてください。



WARNING

- ・ UV LEDs emits high intensity UV (ultraviolet) light.
- ・ Do not look directly into the UV light source; this can be harmful to your eyes and skin.
- ・ Wear protective eyewear to avoid exposure to UV light, as well as protective masks and gloves, etc. in order not to expose your skin to the light. Also take sufficient safety measures against light leakage, etc., in order to avoid any influence on the human body.
- ・ Attach warning labels to your products which contain UV LEDs.
- ・ Keep out of reach of children.

# 赤外&受光

赤外VCSELS  
赤外LED  
受光デバイス  
光センサ

IR VCSELS  
HIGHPOWR IR LEDs, IR LEDs  
PHOTODETECTORS  
OPTICAL SENSORS

アプリケーションに合わせ波長・出力・配光角度のバリエーションを揃えたLED/VCSEL製品と、  
発光と受光を組み合わせたセンサ等をラインアップしています。

IR LED/VCSEL products with a variety of wavelengths, outputs, and light distribution angles to meet with customers' applications.  
A lineup of sensors that combine light emission and reception.

## INFRARED & SENSORS

### 特徴 Features

- 近距離～長距離まで検知可能な光源出力バリエーション  
Light source output variations for short to long distance detection
- 車載:AEC-Q102準拠  
Automotive: AEC-Q102 compliant
- 高効率、高放熱  
High efficiency, high heat dissipation



顔認証  
Face Recognition  
System



### 車載

Automotive

ADAS関連アプリケーションであるDMS・OMSのカメラ、  
LiDAR、個人認証等、インフォテインメント・空調等のToF  
によるジェスチャーコントロール用

ADAS related applications; Cameras for DMS and OMS, LiDAR, and  
personal identification, etc. Gesture control by ToF, for infotainment and  
air conditioning, etc.



ジェスチャー  
コントロール  
Gesture Control  
System



### セキュリティ

Security

防犯・交通インフラ・災害危険地域の遠隔監視等に用いら  
れる監視カメラ、顔認証・虹彩認証等

Surveillance cameras; remote monitoring of crime prevention, traffic infrastruc-  
ture, and disaster risk areas, etc.  
Personal authentication; facial recognition and iris recognition, etc.



監視カメラ  
Surveillance  
Camera



行動分析センサー  
Behavior Analysis  
Sensor



指紋/静脈認証システム  
Fingerprint/  
Vein Recognition System

### 産業機器

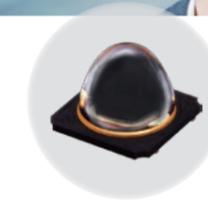
Industrial Equipment

製造工程・物流ライン用光電センサ、画像検査装置、  
ロボット・AGV等の組み込みカメラ・センサ等

Photoelectric sensors for manufacturing processes and distribution lines  
of logistics, image inspection, embedded cameras and sensors for robots  
and AGVs, etc.



製造工程用  
検査装置  
Manufacturing Line  
Management System

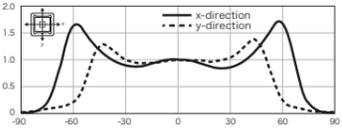
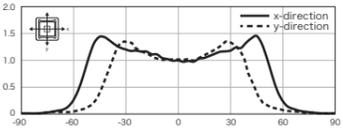
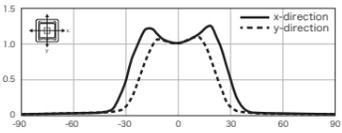


虹彩/顔認証システム  
Face/Iris Recognition System



Ta=25°C

IR VCSELs

パッケージ Package	品名 Part name	電気的光学的特性 / Electro-optical characteristics								熱的特性 / Thermal characteristics			絶対最大定格 / Absolute maximum ratings					標準梱包 数量 Standard qty. /Reel	WEB	
		ピーク発光波長 Peak wavelength $\lambda_p$ Typ.	光出力 Optical output power Po Min. Typ.		応答速度 Response time tr/ tf Typ.	順電圧 Forward voltage V <sub>F</sub> Typ. Max.		照射角度 Field of illumination (FOI x / y)	指向特性 Spatial distribution	選別電流 Sorting current I <sub>F</sub> ≧1	熱抵抗 【ジャンクション-はんだ付け位置】 Thermal resistance [Junction - solder point] R <sub>th(j-c)</sub> Typ. Max.		順電流 Forward current I <sub>F</sub>	パルス順電流 Pulse forward current I <sub>FRM</sub> ≧2	ジャンクション温度 Junction temperature T <sub>j</sub>	静電耐圧 Electrostatic discharge threshold (HBM) V <sub>ESD</sub>	動作温度 Operating temperature Topr			保存温度 Storage temperature Tstg
単位 (Units)		nm	W		ns	V		deg.	-	mA	°C/W		mA	mA	°C	kV	°C	°C	pcs.	
L3.5 x W3.5 x H1.225  41.3mg	UGN1ZE140110	940	9.3	10.1	1 / 1	3.8	4.2	140/110		6,000	9.5	13	2,000	7,000	150	2	-40~+105	-40~+125	500	
L3.5 x W3.5 x H1.225  44.5mg	UEN1ZE11085	940	2.4	2.8	1 / 1	2.1	2.5	110 / 85		4,000	8	13	2,000	10,000	125	2	-40~+105	-40~+125	500	
L3.5 x W3.5 x H1.225  41.2mg	UDN1ZE65	940	1.8	2.1	1 / 1	2.1	2.5	60 / 45		2,700	8	13	2,000	6,000	125	2	-40~+105	-40~+125	500	

※製品画像は代表的なものです / All pictures shown are for illustration purposes only. Actual product may vary due to product enhancement.  
 ※1 駆動条件 / Driving conditions : 0.3ms pulse ※2 駆動条件 / Driving conditions : 0.1ms pulse, 1/100 duty



警告

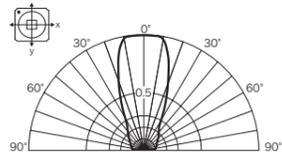
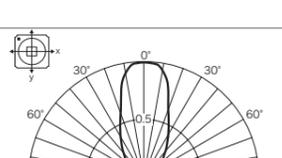
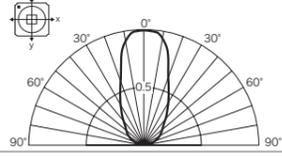
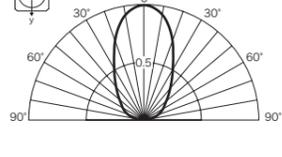
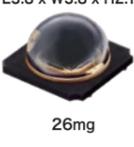
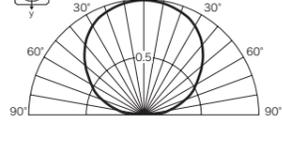
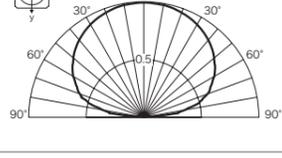
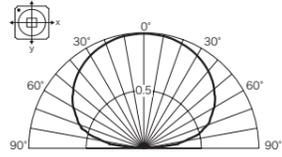
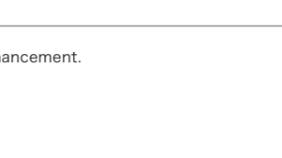
- ・点灯中の本製品からは強い赤外レーザー光が出ています。
- ・目を傷める危険がありますので、点灯中の本製品を直視しないでください。
- ・やむを得ず点灯中の製品を観察する場合には、必ず赤外レーザー光をカットする保護めがねを使用してください。
- ・また、貴社実機においても人体に影響の無い様、光モレ等に対して十分な安全対策を講じて使用ください。



WARNING

- ・ This product emits strong Infrared laser light when it is lit up.
- ・ Do not look directly into the light source, for it could damage your eyes.
- ・ Should it be necessary to observe the product while it is being lit, always use protective glasses that block infrared lase light.
- ・ Please also take sufficient safety measures against light leakage, etc., in order to avoid any influence on the human body.

HIGHPOWER IR LEDs

パッケージ Package	品名 Part name	電気的光学的特性 / Electro-optical characteristics										熱的特性 / Thermal characteristics			絶対最大定格 / Absolute maximum ratings							標準梱包 数量 Standard qty./Reel	WEB		
		ピーク発光波長 Peak wavelength $\lambda_p$ Typ.	放射強度 Radiant intensity $I_e$ Min. Typ.		放射束 Radiant flux $\phi_e$ Typ.	遮断周波数 Cut-off frequency fc Typ.	応答速度 Response time tr/ tf Typ.	順電圧 Forward voltage $V_f$ Typ. Max.		指向半値角 Half-intensity angle $2\theta_{1/2}$ ( $\theta_x / \theta_y$ )	指向特性 Spatial distribution	選別電流 Sorting current $I_F$	熱抵抗 [ジャンクション-はんだ付け位置] Thermal resistance [Junction - solder point] $R_{th(j-c)}$ Typ. Max.		順電流 Forward current $I_F$	順電流低減率 Forward current decrease rate $\Delta I_F$ Derating start temp.		パルス順電流 Pulse forward current $I_{FRM}$ ※1	パルス順電流低減率 Pulse forward current decrease rate※1 $\Delta I_{FRM}$ Derating start temp.		ジャンクション温度 Junction temperature Tj			動作温度 Operating temperature Topr	保存温度 Storage temperature Tstg
			nm	mW/sr				mW	MHz				ns	V		deg.	mA		°C/W	mA					
 34mg	VMNN110CMS	945	890	1,160	1,630	-	15 / 15	2.9	3.3	45 / 45		1,000	5	7	1,000	-	-	5,000	-	-	145	-40~+125	-40~+125	500	
	VMPN110CMS	955	890	1,160	1,630	-	15 / 15	2.9	3.2	45 / 45		1,000	5	7	1,000	-	-	5,000	-	-	145	-40~+125	-40~+125	500	
 28mg	VMKN1107MS	810	390	600	1,100	-	15 / 15	3.2	3.7	50 / 50		700	6.5	8.5	700	-	-	2,000	-	-	125	-40~+125	-40~+125	500	
	VMGN1107MS	855	390	530	1,100	-	15 / 15	1.8	2.4	60 / 60		1,000	5	7	1,000	-	-	5,000	-	-	125	-40~+125	-40~+125	500	
	VMNN1107MS	945	700	950	1,630	-	15 / 15	2.9	3.2	60 / 60		1,000	5	7	1,000	-	-	5,000※1	-	-	145	-40~+125	-40~+125	500	
	VMFN1107MS	945	280	440	950	-	15 / 15	1.5	2.1	60 / 60		1,000	5	7	1,000	-	-	5,000	-	-	125	-40~+125	-40~+125	500	
	VMPN1107MS	955	750	1,000	1,630	-	15 / 15	2.9	3.2	55 / 55		1,000	5	7	1,000	-	-	5,000	-	-	145	-40~+125	-40~+125	500	
 26mg	VMGN1108MS	855	210	280	1,100	-	15 / 15	1.8	2.4	120 / 120		1,000	5	7	1,000	-	-	5,000	-	-	125	-40~+125	-40~+125	500	
	VMNN1108MS	945	330	470	1,630	-	15 / 15	2.9	3.3	120 / 120		1,000	5	7	1,000	-	-	5,000	-	-	145	-40~+125	-40~+125	500	
	VMFN1108MS	945	140	230	950	-	15 / 15	1.5	2.1	120 / 120		1,000	5	7	1,000	-	-	5,000	-	-	125	-40~+125	-40~+125	500	
	VMPN1108MS	955	330	480	1,630	-	15 / 15	2.9	3.2	120 / 120		1,000	5	7	1,000	-	-	5,000	-	-	125	-40~+125	-40~+125	500	
 23mg	VMNN110FMS	945	275	350	1,630	-	15 / 15	2.9	3.3	150 / 150		1,000	5	7	1,000	-	-	5,000	-	-	145	-40~+125	-40~+125	500	
	VMPN110FMS	955	285	350	1,630	-	15 / 15	2.9	3.2	150 / 150		1,000	5	7	1,000	-	-	5,000	-	-	145	-40~+125	-40~+125	500	

※製品画像は代表的なものです/All pictures shown are for illustration purposes only. Actual product may vary due to product enhancement.  
 ※1 駆動条件/Driving conditions : 0.1ms pulse, 1/100 duty



ULTRAVIOLET

INFRARED & SENSORS

VISIBLE LIGHT

INFORMATION

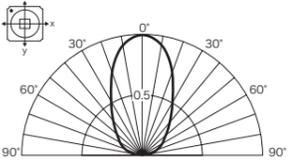
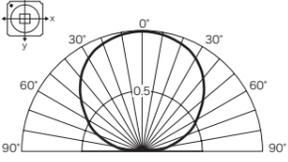
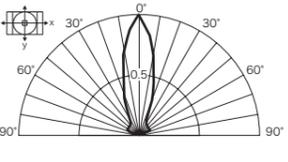
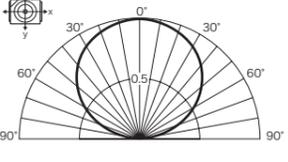
ULTRAVIOLET

INFRARED & SENSORS

VISIBLE LIGHT

INFORMATION

IR LEDs

パッケージ Package	品名 Part name	電気的光学的特性/Electro-optical characteristics									熱的特性/Thermal characteristics			絶対最大定格/Absolute maximum ratings							標準梱包 数量 Standard qty. /Reel	WEB			
		ピーク発光波長 Peak wavelength $\lambda_p$ Typ.	放射強度 Radiant intensity $I_e$ Min. Typ.		放射束 Radiant flux $\phi_e$ Typ.	遮断周波数 Cut-off frequency fc Typ.	応答速度 Response time tr/tf Typ.	順電圧 Forward voltage $V_F$ Typ. Max.		指向半値角 Half-intensity angle $2\theta_{1/2}$ ( $\theta_x/\theta_y$ )	指向特性 Spatial distribution	選別電流 Sorting current $I_F$	熱抵抗 [ジャンクション-はんだ付け位置] Thermal resistance [Junction - solder point] $R_{th(j-s)}$ Typ. Max.		順電流 Forward current $I_F$	順電流低減率 Forward current decrease rate $\Delta I_F$ Derating start temp.		パルス順電流 Pulse forward current $I_{FRM}$ *1	パルス順電流低減率 Pulse forward current decrease rate*1 $\Delta I_{FRM}$ Derating start temp.				ジャンクション温度 Junction temperature $T_j$	動作温度 Operating temperature Topr	保存温度 Storage temperature Tstg
単位 (Units)		nm	mW/sr		mW	MHz	ns	V		deg.	-	mA	°C/W		mA	mA/°C °C		mA	mA/°C °C		°C	°C	°C	pcs.	
 28mg	FWR1107MS	755	270	370	680	-	15 / 15	1.8	2.4	60 / 60		700	5	7	1,000	-	-	4,500	-	-	125	-40~+125	-40~+125	500	
	MJN1107MS	855	630	840	1,600	-	15 / 15	3.2	3.6	60 / 60		1,000	5	7	1,000	-	-	3,000	-	-	125	-40~+125	-40~+125	500	
 26mg	FWR1108MS	755	150	200	740	-	15 / 15	1.8	2.4	120 / 120		700	5	7	1,000	-	-	4,500	-	-	125	-40~+125	-40~+125	500	
	MJN1108MS	855	310	440	1,600	-	15 / 15	3.2	3.6	120 / 120		1,000	5	7	1,000	-	-	3,000	-	-	125	-40~+125	-40~+125	500	
 33mg	JGN1105H	850	25	50	30	-	13 / 13	1.45	1.65	30 / 30		50	-	-	120	2.40	60	1,200	24	60	-	-40~+100	-40~+100	2,000	
	JFN1105H	950	22.5	45	27	-	13 / 13	1.35	1.65	30 / 30		50	-	-	120	2.40	60	1,200	24	60	-	-40~+100	-40~+100	2,000	
 33mg	JGN1104LS	850	5	9.2	35	-	13 / 13	1.5	1.75	120 / 120		50	110	-	100	2.86	85	1,000	28.6	85	120	-40~+100	-40~+120	2,000	
	JFN1104LS	950	5	8.5	31	-	13 / 13	1.35	1.65	120 / 120		50	110	-	100	2.86	85	1,000	28.6	85	120	-40~+100	-40~+120	2,000	

※製品画像は代表的なものです/All pictures shown are for illustration purposes only. Actual product may vary due to product enhancement.  
 ※1 駆動条件/Driving conditions : 0.1ms pulse 1/100 duty

ULTRAVIOLET

INFRARED & SENSORS

VISIBLE LIGHT

INFORMATION

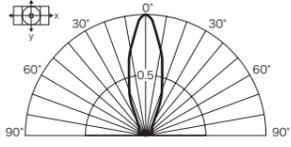
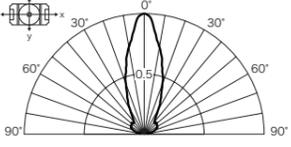
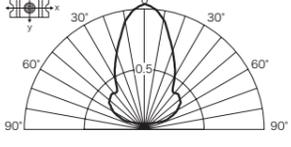
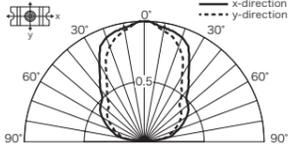
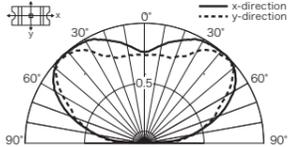
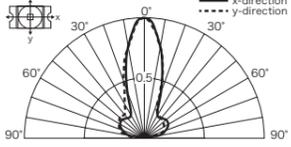
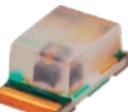
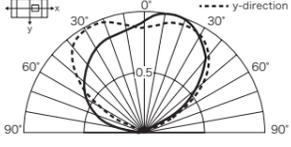
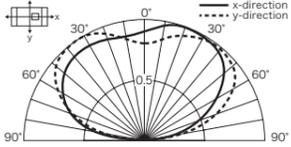
ULTRAVIOLET

INFRARED & SENSORS

VISIBLE LIGHT

INFORMATION

IR LEDs

パッケージ Package	品名 Part name	電気的光学的特性/Electro-optical characteristics										熱的特性/Thermal characteristics		絶対最大定格/Absolute maximum ratings								標準梱包 数量 Standard qty. /Reel	WEB	
		ピーク発光波長 Peak wavelength $\lambda_p$ Typ.	放射強度 Radiant intensity $I_e$ Min. Typ.		放射束 Radiant flux $\phi_e$ Typ.	遮断周波数 Cut-off frequency fc Typ.	応答速度 Response time tr/tf Typ.	順電圧 Forward voltage $V_f$ Typ. Max.		指向半値角 Half-intensity angle $2\theta_{1/2}$ ( $\theta_x/\theta_y$ )	指向特性 Spatial distribution	選別電流 Sorting current $I_f$	熱抵抗 [ジャンクション-はんだ付け位置] Thermal resistance [Junction - solder point] $R_{th(j-s)}$ Typ. Max.	順電流 Forward current $I_f$	順電流低減率 Forward current decrease rate $\Delta I_f$ Derating start temp.		パルス順電流 Pulse forward current $I_{FRM}$ *1	パルス順電流低減率 Pulse forward current decrease rate*1 $\Delta I_{FRM}$ Derating start temp.		ジャンクション温度 Junction temperature $T_j$	動作温度 Operating temperature Topr			保存温度 Storage temperature Tstg
単位 (Units)		nm	mW/sr		mW	MHz	ns	V		deg.	-	mA	°C/W	mA	mA/°C	°C	mA	mA/°C	°C	°C	°C	°C	pcs.	
 7.81mg	TDN1105W-23	870	5.6	11	8.0	50 <sup>#2</sup>	-	1.4	1.65	30 / 30		20	-	-	50	0.67	25	300	4	25	-	-30~+85	-40~+100	2,000
	TAN1105W	940	2.4	4.8	5.7	0.5 <sup>#3</sup>	1,000/1,000	1.22	1.37	30 / 30		20	-	-	50	0.67	25	300	4	25	-	-30~+85	-40~+100	2,000
 33mg	TAN110EF	940	2.7	4.0	5.0	0.5 <sup>#3</sup>	1,000 / 1,000	1.22	1.37	35 / 35		20	-	-	50	0.67	25	300	4	25	-	-40~+85	-40~+100	2,000
 7.8mg	HDN1102W	850	2.2	3.2	8.5	20 <sup>#2</sup>	-	1.45	1.8	60 / 60		20	-	-	50	0.67	25	300	4	25	-	-30~+85	-40~+100	2,500
	HAN1102W-1	940	0.7	1	5.7	0.5 <sup>#3</sup>	1,000 / 1,000	1.2	1.4	75 / 90		20	-	-	50	0.67	25	300	4	25	-	-30~+85	-40~+100	2,500
 7.8mg	TDN1101W	870	0.6	1.2	8.5	50 <sup>#2</sup>	-	1.4	1.7	135 / 145		20	-	-	50	0.67	25	300	4	25	-	-30~+85	-40~+100	2,500
 1.4mg	VTAN1116P	940	1.8	2.8	5.2	-	1,000 / 1,000	1.25	1.45	40 / 40		20	-	-	50	1.25	60	300	7.5	60	-	-40~+85	-40~+100	3,000
 1.4mg	TDN1111C	870	1.0	1.3	8.0	50 <sup>#2</sup>	-	1.4	1.7	125 / 125		20	-	-	50	0.67	25	300	4	25	-	-30~+85	-40~+100	4,000
	VTAN1111C	940	0.64	0.7	4.3	-	1,000 / 1,000	1.22	1.37	145 / 145		20	-	-	50	1.25	60	300	7.5	60	-	-40~+85	-40~+100	4,000

\*製品画像は代表的なものです/All pictures shown are for illustration purposes only. Actual product may vary due to product enhancement.

\*1 駆動条件/Driving conditions : 0.1ms pulse 1/100 duty  
 \*2 駆動条件/Driving conditions :  $I_f=20mA_{DC}+10mA_{P-P}$ , -3dB from 1MHz  
 \*3 駆動条件/Driving conditions :  $I_f=20mA_{DC}+10mA_{P-P}$ , -3dB from 0.1MHz



ULTRAVIOLET

INFRARED & SENSORS

VISIBLE LIGHT

INFORMATION

ULTRAVIOLET

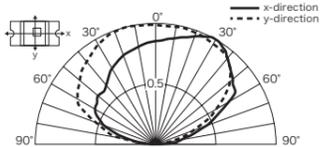
INFRARED & SENSORS

VISIBLE LIGHT

INFORMATION

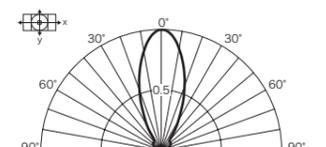
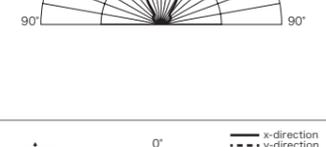
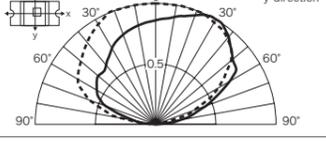
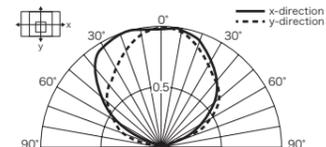
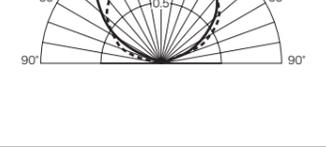
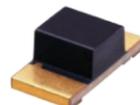
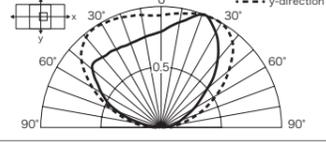
PHOTODETECTORS

PHOTO DIODES

パッケージ Package	品名 Part name	電気的光学的特性/Electro-optical characteristics											絶対最大定格/Absolute maximum ratings					標準梱包 数量 Standard qty./Reel	WEB
		ピーク感度波長 Peak sensitivity wavelength $\lambda_p$ Typ.	光電流 Photocurrent $I_c$				暗電流 Dark current $I_{CEO}$		応答速度 Response time tr/ tf			指向半値角 Half-intensity angle $2\theta_{1/2}$ ( $\theta_x/\theta_y$ )	指向特性 Spatial distribution	許容損失 Power dissipation Pd	逆電圧 Reverse voltage $V_R$	動作温度 Operating temperature Topr	保存温度 Storage temperature Tstg		
			Min.	Typ.	$V_{CE}$	$Ee^{#2}$	Max.	$V_R$	Typ.	$V_R$	$R_L$								
単位 (Units)		nm	mA				nA		ns			deg.	-	mW	V	°C	°C	pcs.	
 7.8mg	TPP1101WA	950	2	4	5	5	20	10	50 / 50	10	1,000	140 / 140		30	15	-40~+85	-40~+100	2,500	

※製品画像は代表的なものです/All pictures shown are for illustration purposes only. Actual product may vary due to product enhancement.  
 ※2 光源色温度は2,856Kの標準タングステンランプを使用/Using a standard tungsten lamp with a color temperature of 2,856 K

PHOTO TRANSISTORS

パッケージ Package	品名 Part name	電気的光学的特性/Electro-optical characteristics											絶対最大定格/Absolute maximum ratings					標準梱包 数量 Standard qty./Reel	WEB	
		ピーク感度波長 Peak sensitivity wavelength $\lambda_p$ Typ.	光電流 Photocurrent $I_c$				暗電流 Dark current $I_{CEO}$		応答速度 Response time tr/ tf			指向半値角 Half-intensity angle $2\theta_{1/2}$ ( $\theta_x/\theta_y$ )	指向特性 Spatial distribution	コレクタ・エミッタ間電圧 Collector-emitter voltage $V_{CE0}$	コレクタ電流 Collector current $I_c$	動作温度 Operating temperature Topr	保存温度 Storage temperature Tstg			
			Min.	Typ.	$V_{CE}$	$Ee^{#2}$	Max.	$V_{CEO}$	Typ.	$V_{CE}$	$R_L$									$I_c$
単位 (Units)		nm	mA				$\mu A$		$\mu s$			deg.	-	V	mA	°C	°C	pcs.		
 7.81mg	TPS1105WA	850	4.8	11.0	5	5	0.1	10	3.1/4.1	10	100	2	40 / 40		30	20	-40~+85	-40~+100	2,000	
 7.81mg	TPS1195WB-1	900 <sup>#1</sup>	5.5	8.0	5	5	0.1	10	3.1/4.1	10	100	2	40 / 40		30	20	-40~+85	-40~+100	2,000	
 7.8mg	TPS1101WA	880	2.1	-	5	5	0.1	10	11 / 13	10	100	2	140 / 140		12	20	-40~+85	-40~+100	2,500	
 2.84mg	VTPS1102HA	850	0.9	2.0	5	5	0.1	10	1.8 / 2.6	10	100	2	130 / 120		12	20	-40~+85	-40~+100	4,000	
 2.84mg	VTPS1192HB	900 <sup>#1</sup>	0.45	1.3	5	5	0.1	10	1.8 / 2.6	10	100	2	130 / 120		12	20	-40~+85	-40~+100	4,000	
 6.6mg	TPS1191RB-2 (reverse mount type)	900 <sup>#1</sup>	0.7	1.0	5	5	0.1	10	1.8 / 2.6	10	100	2	110 / 120		30	20	-40~+85	-40~+100	3,000	

※製品画像は代表的なものです/All pictures shown are for illustration purposes only. Actual product may vary due to product enhancement.  
 ※1 可視光カット(700nm以下)/Visible radiation cut filter under 700 nm  
 ※2 光源色温度は2,856Kの標準タングステンランプを使用/Using a standard tungsten lamp with a color temperature of 2,856 K

ULTRAVIOLET

ULTRAVIOLET

INFRARED & SENSORS

INFRARED & SENSORS

VISIBLE LIGHT

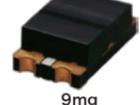
VISIBLE LIGHT

INFORMATION

INFORMATION

OPTICAL SENSORS

Ta=25°C

パッケージ Package	品名 Part name	電氣的光学的特性/Electro-optical characteristics														絶対最大定格/Absolute maximum ratings										標準梱包 数量 Standard qty./Reel	WEB																										
		LED			Photo transistor			結合特性/Coupling characteristics								LED			Photo transistor																																		
		順電圧 Forward voltage V <sub>F</sub>			ピーク発光波長 Peak wavelength λ <sub>p</sub>			暗電流 Dark current I <sub>CEO</sub>			ピーク感度波長 Peak sensitivity wavelength λ <sub>p</sub>			光電流 Photocurrent ※1 I <sub>c</sub>				漏れ電流 Leakage current ※2 I <sub>LEAK</sub>				応答速度 Response time tr/tf			順電流 Forward current I <sub>F</sub>			順電流低減率 Forward current decrease rate ΔI <sub>F</sub>			パルス順電流 Pulse forward current ※3 I <sub>FRM</sub>			パルス順電流低減率 Pulse forward current decrease rate ΔI <sub>FRM</sub>			コレクタ・エミッタ間電圧 Collector-emitter voltage V <sub>CEO</sub>		コレクタ電流 Collector current I <sub>c</sub>		動作温度 Operating temperature Topr ※4		保存温度 Storage temperature Tstg										
		Min.	Typ.	Max.	Typ.	Max.	V <sub>CEO</sub>	Typ.	Min.	Typ.	Max.	V <sub>CE</sub>	I <sub>F</sub>	Max.	V <sub>CE</sub>	I <sub>F</sub>	Typ.	V <sub>CE</sub>	R <sub>L</sub>	I <sub>F</sub>	I <sub>F</sub>	ΔI <sub>F</sub>	Derating start temp.	I <sub>FRM</sub>	ΔI <sub>FRM</sub>			Derating start temp.	V	I <sub>c</sub>	°C	°C	°C	°C																			
単位 (Units)		V		nm		μA		V		nm		μA		V		mA		μA		V		mA		μS		V		Ω		mA		mA		mA/°C		°C		mA		mA/°C		°C		V		mA		°C		°C		pcs.	
L3.6 x W1.9 x H1.1  9mg	KUA0121C	0.9	1.1	1.5	940	0.1	10	880	184	300	520	5	5	2	5	5	10/10	10	100	5	20	1	85	300	18	85	20	10	-40~+100	-40~+120	2,500																						
L3.1 x W1.9 x H1.1  9mg	KU163C	0.9	1.1	1.5	940	0.1	10	850	115	200	425	5	5	2	5	5	10/10	10	100	5	20	0.17	25	300	4	25	20	20	-30~+85	-40~+100	2,500																						

※製品画像は代表的なものです/All pictures shown are for illustration purposes only. Actual product may vary due to product enhancement.  
 ※1 検知距離 1mm/d=1mm ※2 反射物無し/No reflector ※3 I<sub>FRM</sub>の測定条件/Pulse width≤0.1ms, Duty≤1/100  
 ※4 Ta=85°C以上で使用される場合は、暗電流(I<sub>CEO</sub>)の増加をご考慮の上ご使用ください。/Please pay careful attention to the rise of dark current (I<sub>CEO</sub>) when using at Ta=85°C or more.

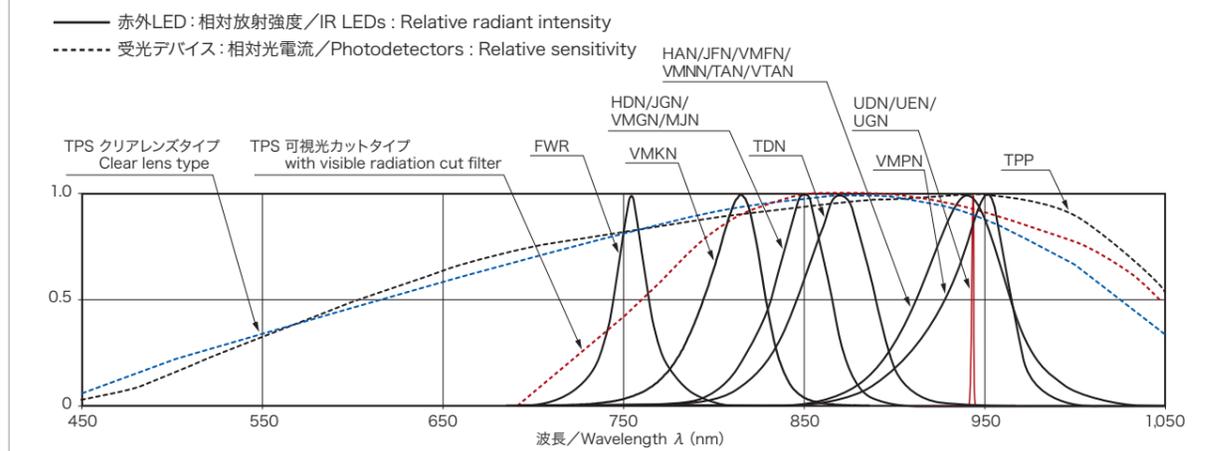


(Ta=25°C, V<sub>CC</sub>=5V, 周囲照度/Ambient illuminance=0 lx)

パッケージ Package	品名 Part name	検知距離 Detection distance	電源電圧 Supply voltage V <sub>CC</sub>	出力 インターフェース Output	出力電圧 Output voltage (R <sub>L</sub> =4.7kΩ)		応答速度 Response time tr/tf Max.	外乱許容照度 Allowable background light level Typ.※1	動作温度 Operating temperature Topr	保存温度 Storage temperature Tstg	標準 梱包数量 Standard qty./Box	WEB
					検知時 When detecting V <sub>OL</sub> Max.	非検知時 When not detecting V <sub>OH</sub> Min.						
単位 (Units)		mm	V	-	V		ms	lx	°C	°C	pcs.	
L32.8 x W12.5 x H10  2.9g	KUA0118A	350~1,000 (白紙/ White paper)	5	オープンコレクタ Open collector	0.5	4.5	5/5	3,000	0~+60 (10~90% RH)	-30~+70 (5~95% RH)	1,000	

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 ※1 蛍光灯 (50Hz) 及び白熱電球/Fluorescent light (50Hz) or incandescent bulb

スペクトル分布/Spectral distribution



ULTRAVIOLET

ULTRAVIOLET

INFRARED & SENSORS

INFRARED & SENSORS

VISIBLE LIGHT

VISIBLE LIGHT

INFORMATION

INFORMATION

# 可視光

単色LED

マルチカラーLED

SINGLE-COLOR LEDs

MULTICOLOR LEDs

## VISIBLE LIGHT

様々な機器のインジケータ用からバックライトや自動車ヘッドランプ用まで、幅広い用途に適応した製品をラインアップしています。

Variety of products lineup to meet with wide range of applications:  
Low power for indicators and high power for backlights and automobile headlamps.

### 特徴 Features

- 車載: AEC-Q102準拠  
Automotive: AEC-Q102 compliant
- 使い勝手の良い明るさ・発光色・配光のバリエーション  
Variety of brightness, color, and light distributions
- 小型・薄型パッケージ  
Compact and thin package

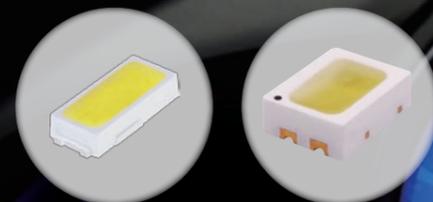


### 車載 Automotive

Automotive

ヘッドランプ・リアランプ等エクステリアと、操作パネル・メーター・センターディスプレイ・アンビエント等インテリア用光源

Light sources for exteriors; headlamps and rear lamps.  
Interiors; control panels, meters, center displays, and ambient lighting.



LCDバックライト  
LCD backlight

メーター  
Meter

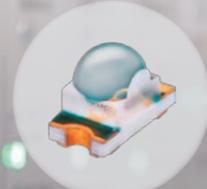
デイライト  
DRL

ヘッドランプ  
Head Lamp

### 産業用 Industrial

Industrial

PLC、製造用システム用表示・スイッチ・インジケータ用光源  
Light sources for displays, switches and indicators for PLCs and manufacturing systems, etc.



PLC  
Programmable Logic  
Controller



### 家電・バックライト Home Appliances, Backlight

Home Appliances, Backlight

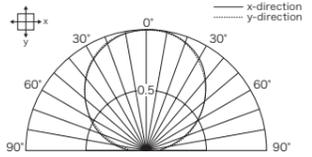
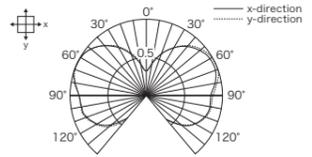
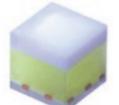
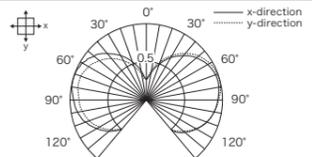
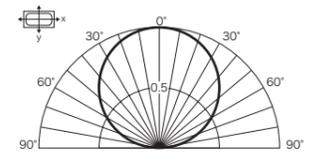
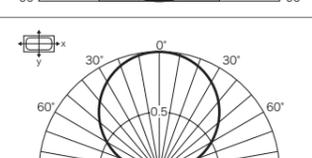
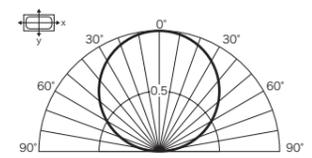
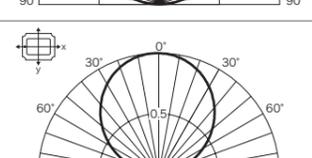
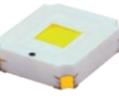
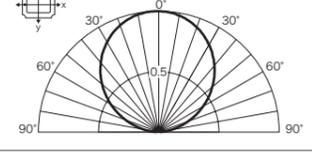
家電用表示・スイッチ・インジケータ用光源、液晶パネルバックライト用光源  
Light source for displays, switches and indicators for home appliances, and for backlight of liquid crystal displays.



スマートホーム  
コントロールシステム  
Smart Home Control System

IHコンロ  
Induction Heating  
Cooker

SINGLE-COLOR LEDs (for LCD backlight)

パッケージ Package	品名 Part name	発光色 Emitted color	電気的光学的特性 / Electro-optical characteristics								熱的特性 / Thermal characteristics		絶対最大定格 / Absolute maximum ratings					標準梱包 数量 Standard qty./Reel	WEB			
			色度座標 Chromaticity coordinates <sup>*1</sup> x y Typ. Typ.		ピーク発光波長 Peak wavelength $\lambda_p$ Typ.	発光光束 Luminous flux $\Phi_v$ Min. Typ.		順電圧 Forward voltage $V_f$ Typ. Max.		指向半値角 Half-intensity angle $2\theta_{1/2}$ ( $\theta_x/\theta_y$ )	指向特性 Spatial distribution	選別電流 Sorting current $I_F$	熱抵抗 [ジャンクション-はんだ付け位置] Thermal resistance [Junction - solder point] $R_{th(j-s)}$ Typ. Max.	順電流 Forward current $I_F$	順電流低減率 Forward current decrease rate $\Delta I_F$ Derating start temp.	ジャンクション温度 Junction temperature $T_j$	動作温度 Operating temperature $T_{opr}$			保存温度 Storage temperature $T_{stg}$		
単位 (Units)		-	nm	lm	V	deg.	-	mA	°C/W	mA	mA/°C	°C	°C	°C	°C	pcs.						
L0.8 x W0.8 x H0.56  0.7mg	VLJW115LCS (Wide color gamut product) *For LCD back light application only Under development		0.2460	0.2070	447	1.4	1.8	5.6	5.8	120 / 120		3	-	-	5	-	110	-40~+85	-40~+110	10,000		
L1.0 x W1.0 x H0.95  1.9mg	VXFW115JCR (Wide color gamut product) *For LCD back light application only Under development		0.2770	0.2600	540 / 632 *Peak wavelength of phosphor 1 and 2	5.5	6.6	5.5	5.8	290 / 290		10	20.0	-	35	-	125	-40~+105	-40~+105	3,000		
L1.5 x W1.5 x H1.4  4.5mg	VLKW115MCR (Wide color gamut product) *For LCD back light application only Under development		0.2740	0.2550	446	(14)	18	5.8	6.2	280 / 280		30	14.0	-	100	1.6	60	125	-40~+110	-40~+110	2,000	
L3.2 x W1.4 x H0.58  7.7mg	BXMW115HGSE-100		0.290	0.275	-	26.1	36	2.9	3.1	115 / 115		80	15.0	-	170	11.33	110(Ts)	125	-40~+100	-40~+120	3,000	
	BXMW115HGSE-200		0.290	0.275	-	34.8	50	3.0	3.2	115 / 115		120	15.0	-	170	11.33	110(Ts)	125	-40~+100	-40~+120	3,000	
L3.2 x W1.4 x H0.58  7.7mg	BXMW115HGSE-300 (Wide color gamut product) *For LCD back light application only		0.277	0.260	-	26.1	31.5	2.9	3.1	115 / 115		80	15.0	-	170	11.33	110(Ts)	125	-40~+100	-40~+120	3,000	
	BXMW115HGSE-400 (Wide color gamut product) *For LCD back light application only		0.277	0.260	-	38.3	44.5	3.0	3.2	115 / 115		120	15.0	-	170	11.33	110(Ts)	125	-40~+100	-40~+120	3,000	
L3.0 x W2.5 x H0.77  19.7mg	VBHW1149JTE-100		0.277	0.2435	-	180	250	3.25	3.75	117 / 117		1,000	2.8	3.8	100~ 1,200	8.0	Tj 125	160	-40~+125	-40~+125	3,000	

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\*1 CIE1931に基づく / In accordance with CIE1931

ULTRAVIOLET

INFRARED & SENSORS

VISIBLE LIGHT

INFORMATION

ULTRAVIOLET

INFRARED & SENSORS

VISIBLE LIGHT

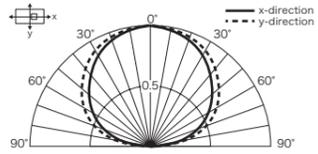
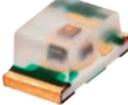
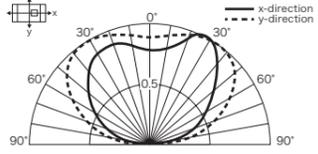
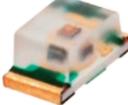
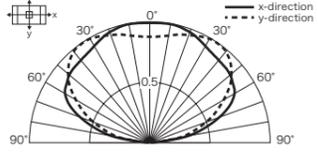
INFORMATION

SINGLE-COLOR LEDs

パッケージ Package	品名 Part name	発光色 Emitted color	電気的光学的特性/Electro-optical characteristics								絶対最大定格/Absolute maximum ratings						標準梱包 数量 Standard qty./Reel	WEB	
			色度座標 Chromaticity coordinates <sup>-1</sup>		ドミナント発光波長 Dominant wavelength λd Typ.	発光光度 Luminous intensity Iv Min. Typ.		順電圧 Forward voltage Vf Typ. Max.		指向半値角 Half-intensity angle 2θ <sub>1/2</sub> (θx/θy)	指向特性 Spatial distribution	選別電流 Sorting current If	順電流 Forward current If	順電流低減率 Forward current decrease rate ΔIf Derating start temp.		動作温度 Operating temperature Topr			保存温度 Storage temperature Tstg
			x Typ.	y Typ.		Typ.	Typ.	V	deg.					mA	mA				
L1.6 x W0.8 x H0.7 1.4mg	VXGW1151CDS-3BZD3		0.291	0.308	-	82	112	3.0	3.5	160 / 168		10	20	0.80	85	-40~+100	-40~+110	4,000	
L1.6 x W0.8 x H0.7 1.4mg	VXGW1151CCS-3BYZ2		0.293	0.281	-	68	92	3.0	3.5	160 / 168		10	20	0.80	85	-40~+100	-40~+110	4,000	
L1.6 x W0.8 x H0.7 1.4mg	VXGW1151CA3S-3BXV2		0.165	0.122	-	56	70	3.0	3.5	160 / 168		10	20	0.80	85	-40~+100	-40~+110	4,000	
L1.6 x W0.8 x H0.7 2.0mg	VXKW115ACDS-3CYC3		0.279	0.290	-	680	800	2.9	3.4	133 / 163		20	25	1.00	85	-40~+100	-40~+110	4,000	
	VXJW115ACDS-3C5L3		0.316	0.316	-	220	300	3.1	3.9	133 / 163		20	25	1.00	85	-40~+100	-40~+110	4,000	
L1.6 x W0.8 x H0.7 2.0mg	VXKW115ACCS		0.200	0.268	-	470	740	2.9	3.4	133 / 163		20	25	1.00	85	-40~+100	-40~+110	4,000	
	VXJW115ACCS		0.200	0.268	-	150	300	3.1	3.9	133 / 163		20	25	1.00	85	-40~+100	-40~+110	4,000	
L1.6 x W0.8 x H0.7 2.0mg	VXKW115ACA3S-3CXK8		0.208	0.198	-	560	700	2.9	3.4	133 / 163		20	25	1.00	85	-40~+100	-40~+110	4,000	
	VXJW115ACA3S-3C3W2		0.173	0.143	-	150	200	3.1	3.9	133 / 163		20	25	1.00	85	-40~+100	-40~+110	4,000	
L1.6 x W0.8 x H0.7 2.0mg	VXKB111ACS-3C43B		-	-	468	180	250	3.0	3.4	133 / 163		20	25	1.00	85	-40~+100	-40~+110	4,000	

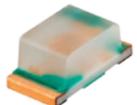
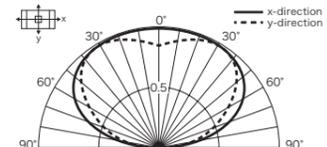
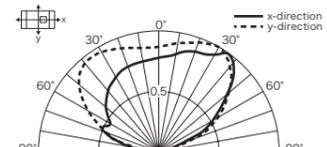
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 ※1 CIE1931に基づく/In accordance with CIE1931

SINGLE-COLOR LEDs

パッケージ Package	品名 Part name	発光色 Emitted color	電気的光学的特性/Electro-optical characteristics								絶対最大定格/Absolute maximum ratings						標準梱包 数量 Standard qty./Reel	WEB	
			色度座標 Chromaticity coordinates <sup>-1</sup>		ドミナント発光波長 Dominant wavelength $\lambda_d$ Typ.	発光光度 Luminous intensity $I_v$		順電圧 Forward voltage $V_f$		指向半値角 Half-intensity angle $2\theta_{1/2}$ ( $\theta_x/\theta_y$ )	指向特性 Spatial distribution	選別電流 Sorting current $I_s$	順電流 Forward current $I_f$	順電流低減率 Forward current decrease rate $\Delta I_f$		動作温度 Operating temperature Topr			保存温度 Storage temperature Tstg
			x Typ.	y Typ.		Min.	Typ.	Typ.	Max.					mA/°C	°C				
単位 (Units)			-		nm	mcd		V		deg.	-	mA	mA	mA/°C	°C	°C	°C	pcs.	
 0.29mg	FHD1105P		-	-	570	6.3	9	1.9	2.4	130 / 150		5	20	0.27	25	-40~+85	-40~+100	10,000	
	FHY1105P		-	-	590	22.5	32	1.9	2.4	130 / 150		5	20	0.27	25	-40~+85	-40~+100	10,000	
	FHA1105P		-	-	604	28	40	1.9	2.4	130 / 150		5	20	0.27	25	-40~+85	-40~+100	10,000	
	FHR1105P		-	-	623	22.5	32	1.9	2.4	130 / 150		5	20	0.27	25	-40~+85	-40~+100	10,000	
 1.4mg	VFHL1111C-4B23C		-	-	562	12	18	1.9	2.4	140 / 150		20	30	1.00	75	-40~+100	-40~+105	4,000	
	VFHD1111C-3B72B		-	-	572	33	43	1.9	2.4	140 / 150		20	30	1.00	75	-40~+100	-40~+105	4,000	
	VFHY1111C-3BX2D		-	-	590	56	75	1.9	2.4	140 / 150		20	30	1.00	75	-40~+100	-40~+105	4,000	
	VFHA1111C-3BZ2C		-	-	605	82	110	1.9	2.4	140 / 150		20	30	1.00	75	-40~+100	-40~+105	4,000	
	VFHV1111C-3BY2B		-	-	615	68	91	1.9	2.4	140 / 150		20	30	1.00	75	-40~+100	-40~+105	4,000	
	VFHR1111C-3BY2A		-	-	626	68	91	1.9	2.4	140 / 150		20	30	1.00	75	-40~+100	-40~+105	4,000	
 1.4mg	VJDY1111C-4C54C		-	-	589	220	330	2.1	2.5	140 / 140		20	30	1.00	75	-40~+100	-40~+105	4,000	
	VJDA1111C-4C72C		-	-	606	330	470	2.1	2.5	140 / 140		20	30	1.00	75	-40~+100	-40~+105	4,000	
	VJDV1111C-4C74A		-	-	616	330	470	2.1	2.5	140 / 140		20	30	1.00	75	-40~+100	-40~+105	4,000	
	VJDR1111C-4C52A		-	-	626	220	330	2.1	2.5	140 / 140		20	30	1.00	75	-40~+100	-40~+105	4,000	
	VJDR1111C-4C21C		-	-	635	120	180	2.1	2.5	140 / 140		20	30	1.00	75	-40~+100	-40~+105	4,000	

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SINGLE-COLOR LEDs

パッケージ Package	品名 Part name	電気的光学的特性/Electro-optical characteristics										絶対最大定格/Absolute maximum ratings					標準梱包 数量 Standard qty./Reel	WEB	
		発光色 Emitted color	色度座標 Chromaticity coordinates <sup>-1</sup>		ドミナント発光波長 Dominant wavelength λd Typ.	発光光度 Luminous intensity Iv Min. Typ.		順電圧 Forward voltage Vf Typ. Max.		指向半値角 Half-intensity angle 2θ <sub>1/2</sub> (θx/θy)	指向特性 Spatial distribution	選別電流 Sorting current If	順電流 Forward current If	順電流低減率 Forward current decrease rate ΔIf Derating start temp.		動作温度 Operating temperature Topr			保存温度 Storage temperature Tstg
			x Typ.	y Typ.		Typ.	Typ.	Typ.	Max.					mA/°C	°C				
単位 (Units)		-		nm	mcd		V		deg.	-	mA	mA	mA/°C	°C	°C	°C	pcs.		
 L1.6 x W0.8 x H0.7 1.4mg	XPG1111C		-	-	526	120	170	2.9	3.2	140 / 140		5	20	0.26	25	-40~+85	-40~+100	4,000	
	YBG1101C-M YPY1101C-2005-M YPY1101C-M		-	-	562	4.3	12	2.0	2.5	110 / 130		20	30	0.43	25	-40~+85	-40~+100	4,000	
FY1101C-2005-M FY1101C-M		-	-	569	4	8	2.0	2.4	120 / 130	5		30	0.43	25	-40~+85	-40~+100	4,000		
 L1.62 x W0.8 x H0.8 1.8mg	FA1101C-2005-M		-	-	571	19.8	35	2.1	2.5	120 / 130		20	30	0.43	25	-40~+85	-40~+100	4,000	
	FR1101C-2005-M		-	-	590	10	20	1.9	2.4	130 / 130		5	30	0.43	25	-40~+85	-40~+100	4,000	
	FR1101C-M		-	-	590	35	65	1.9	2.4	130 / 130		20	30	0.43	25	-40~+85	-40~+100	4,000	
	FA1101C-2005-M		-	-	605	10	25	1.9	2.4	130 / 130		5	30	0.43	25	-40~+85	-40~+100	4,000	
	FA1101C-M		-	-	605	35	90	2.0	2.4	130 / 130		20	30	0.43	25	-40~+85	-40~+100	4,000	
	FR1101C-2005-M		-	-	623	10	20	1.9	2.4	130 / 130		5	30	0.43	25	-40~+85	-40~+100	4,000	
FR1101C-M		-	-	626	35	80	2.0	2.4	130 / 130	20		30	0.43	25	-40~+85	-40~+100	4,000		

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ULTRAVIOLET

INFRARED & SENSORS

VISIBLE LIGHT

INFORMATION

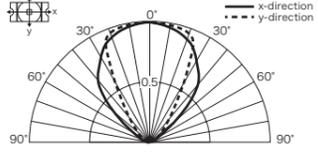
ULTRAVIOLET

INFRARED & SENSORS

VISIBLE LIGHT

INFORMATION

SINGLE-COLOR LEDs

パッケージ Package	品名 Part name	電気的光学的特性 / Electro-optical characteristics										絶対最大定格 / Absolute maximum ratings					標準梱包 数量 Standard qty./Reel	WEB	
		発光色 Emitted color	色度座標 Chromaticity coordinates <sup>*1</sup>		ドミナント発光波長 Dominant wavelength λd Typ.	発光光度 Luminous intensity Iv Min. Typ.		順電圧 Forward voltage Vf Typ. Max.		指向半値角 Half-intensity angle 2θ <sub>1/2</sub> (θx/θy)	指向特性 Spatial distribution	選別電流 Sorting current If	順電流 Forward current If	順電流低減率 Forward current decrease rate ΔIf Derating start temp.		動作温度 Operating temperature Topr			保存温度 Storage temperature Tstg
			x Typ.	y Typ.		Typ.	Typ.	Typ.	Max.					mA/°C	°C				
単位 (Units)		-		nm	mcd		V		deg.	-	mA	mA	mA/°C	°C	°C	°C	pcs.		
 <p>L1.64 x W0.84 x H1.15 1.7mg</p>	VFHL1104P-4B63C		-	-	562	27	40	1.9	2.5	80 / 65		20	30	1.00	75	-40~+100	-40~+105	3,000	
	VFHD1104P-4BY2B		-	-	573	68	100	1.9	2.5	80 / 65		20	30	1.00	75	-40~+100	-40~+105	3,000	
	VFHY1104P-4C42D		-	-	589	180	250	1.9	2.5	80 / 65		20	30	1.00	75	-40~+100	-40~+105	3,000	
	VJDY1104P-4CY3C		-	-	589	680	1,000	2.1	2.5	80 / 65		20	30	1.00	75	-40~+100	-40~+105	3,000	
	VFHA1104P-4C42C		-	-	606	180	250	1.9	2.5	80 / 65		20	30	1.00	75	-40~+100	-40~+105	3,000	
	VJDA1104P-4D12C		-	-	606	1,000	1,500	2.1	2.5	80 / 65		20	30	1.00	75	-40~+100	-40~+105	3,000	
	VFHV1104P-4C62B		-	-	616	270	420	1.9	2.5	80 / 65		20	30	1.00	75	-40~+100	-40~+105	3,000	
	VJDV1104P-4D13A		-	-	615	1,000	1,500	2.1	2.5	80 / 65		20	30	1.00	75	-40~+100	-40~+105	3,000	
	VFHR1104P-4C42A		-	-	626	180	250	1.9	2.5	80 / 65		20	30	1.00	75	-40~+100	-40~+105	3,000	
	VJDR1104P-4CZ2A		-	-	626	820	1,200	2.1	2.5	80 / 65		20	30	1.00	75	-40~+100	-40~+105	3,000	
	VJDR1104P-4C81C		-	-	635	390	560	2.1	2.5	80 / 65		20	30	1.00	75	-40~+100	-40~+105	3,000	

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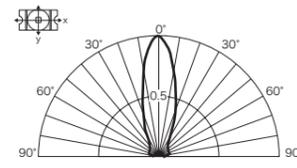
VISIBLE LIGHT

VISIBLE LIGHT

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SINGLE-COLOR LEDs

パッケージ Package	品名 Part name	電気的光学的特性 / Electro-optical characteristics										絶対最大定格 / Absolute maximum ratings					標準梱包 数量 Standard qty./Reel	WEB	
		発光色 Emitted color	色度座標 Chromaticity coordinates <sup>*1</sup>		ドミナント発光波長 Dominant wavelength λd Typ.	発光光度 Luminous intensity Iv Min. Typ.		順電圧 Forward voltage Vf Typ. Max.		指向半値角 Half-intensity angle 2θ <sub>1/2</sub> (θx/θy)	指向特性 Spatial distribution	選別電流 Sorting current If	順電流 Forward current If	順電流低減率 Forward current decrease rate ΔIf Derating start temp.		動作温度 Operating temperature Topr			保存温度 Storage temperature Tstg
			x Typ.	y Typ.		Typ.	Typ.	mA	mA					mA/°C	°C				
単位 (Units)		-		nm	mcd		V		deg.	-	mA	mA	mA/°C	°C	°C	°C	pcs.		
 <p>L1.64 x W0.84 x H1.26 1.7mg</p>	VFHL1116P-4BX3C		-	-	562	56	82	1.9	2.5	35 / 35		20	30	1.00	75	-40~+100	-40~+105	3,000	
	VFHD1116P-4C32B		-	-	573	150	220	1.9	2.5	35 / 35		20	30	1.00	75	-40~+100	-40~+105	3,000	
	VFJD1116P-4C62B		-	-	573	270	390	1.9	2.5	35 / 35		20	30	1.00	75	-40~+100	-40~+105	3,000	
	VFHY1116P-4C82D		-	-	589	390	560	1.9	2.5	35 / 35		20	30	1.00	75	-40~+100	-40~+105	3,000	
	VJDY1116P-4D33C		-	-	589	1,500	2,200	2.1	2.5	35 / 35		20	30	1.00	75	-40~+100	-40~+105	3,000	
	VFHA1116P-4C82C		-	-	606	390	560	1.9	2.5	35 / 35		20	30	1.00	75	-40~+100	-40~+105	3,000	
	VJDA1116P-4D52C		-	-	606	2,200	3,300	2.1	2.5	35 / 35		20	30	1.00	75	-40~+100	-40~+105	3,000	
	VJDV1116P-4D43A		-	-	615	1,800	2,700	2.1	2.5	35 / 35		20	30	1.00	75	-40~+100	-40~+105	3,000	
	VFHR1116P-4C82A		-	-	626	390	560	1.9	2.5	35 / 35		20	30	1.00	75	-40~+100	-40~+105	3,000	
	VJDR1116P-4D32A		-	-	626	1,500	2,200	2.1	2.5	35 / 35		20	30	1.00	75	-40~+100	-40~+105	3,000	
	VJDR1116P-4CZ1C		-	-	635	820	1,500	2.1	2.5	35 / 35		20	30	1.00	75	-40~+100	-40~+105	3,000	

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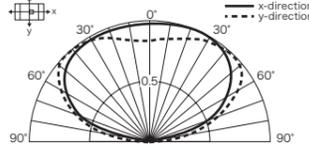
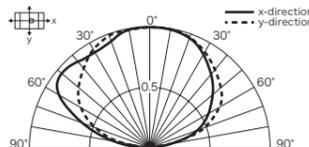
VISIBLE LIGHT

VISIBLE LIGHT

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SINGLE-COLOR LEDs

パッケージ Package	品名 Part name	電気的光学的特性/Electro-optical characteristics									絶対最大定格/Absolute maximum ratings						標準梱包 数量 Standard qty./Reel	WEB	
		発光色 Emitted color	色度座標 Chromaticity coordinates <sup>-1</sup>		ドミナント発光波長 Dominant wavelength $\lambda_d$ Typ.	発光光度 Luminous intensity		順電圧 Forward voltage		指向半値角 Half-intensity angle $2\theta_{1/2}$ ( $\theta_x/\theta_y$ )	指向特性 Spatial distribution	選別電流 Sorting current $I_F$	順電流 Forward current $I_F$	順電流低減率 Forward current decrease rate		動作温度 Operating temperature Topr			保存温度 Storage temperature Tstg
			x Typ.	y Typ.		Min.	Typ.	Typ.	Max.					$\Delta I_F$	Derating start temp. °C				
単位 (Units)		-		nm	mcd		V		deg.	-	mA	mA	mA/°C	°C	°C	°C	pcs.		
L2.0 x W1.25 x H0.8  2.84mg	VFHL1112H-4B13C		-	-	562	10	15	1.9	2.4	140 / 150		20	30	1.00	75	-40~+100	-40~+105	4,000	
	VFHD1112H-3B72B		-	-	572	33	43	1.9	2.4	140 / 150		20	30	1.00	75	-40~+100	-40~+105	4,000	
	VFHY1112H-3BY2D		-	-	590	68	91	1.9	2.4	140 / 150		20	30	1.00	75	-40~+100	-40~+105	4,000	
	VFHA1112H-3BZ2C		-	-	605	82	110	1.9	2.4	140 / 150		20	30	1.00	75	-40~+100	-40~+105	4,000	
	VFHV1112H-3BZ2B		-	-	615	82	110	1.9	2.4	140 / 150		20	30	1.00	75	-40~+100	-40~+105	4,000	
	VFHR1112H-3BY2A		-	-	626	68	91	1.9	2.4	140 / 150		20	30	1.00	75	-40~+100	-40~+105	4,000	
L2.0 x W1.25 x H0.8  2.84mg	FKY1112H		-	-	588	150	270	2.1	2.6	140 / 140		20	30	0.40	25	-40~+85	-40~+100	4,000	
	FKA1112H		-	-	605	220	390	2.1	2.6	140 / 140		20	30	0.40	25	-40~+85	-40~+100	4,000	
	FKR1112H		-	-	623	150	270	2.1	2.6	140 / 140		20	30	0.40	25	-40~+85	-40~+100	4,000	

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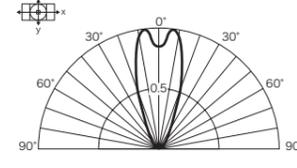
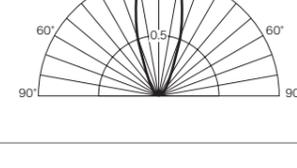
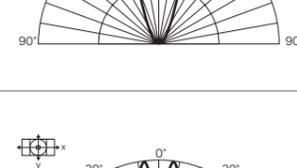
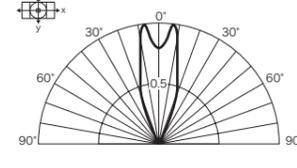
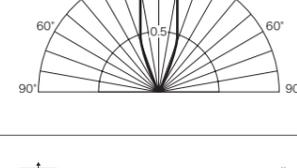
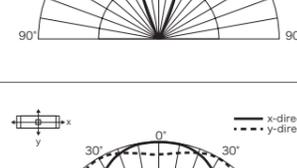
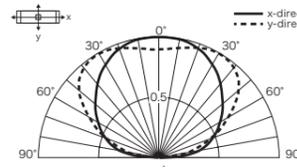
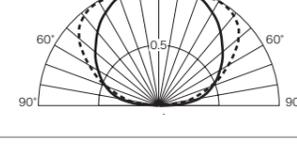
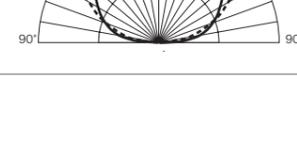
VISIBLE LIGHT

VISIBLE LIGHT

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SINGLE-COLOR LEDs

パッケージ Package	品名 Part name	電気的光学的特性 / Electro-optical characteristics										絶対最大定格 / Absolute maximum ratings					標準梱包 数量 Standard qty./Reel	WEB		
		発光色 Emitted color	色度座標 Chromaticity coordinates <sup>1)</sup>		ドミナント発光波長 Dominant wavelength λd Typ.	発光光度 Luminous intensity Iv Min. Typ.		順電圧 Forward voltage Vf Typ. Max.		指向半値角 Half-intensity angle 2θ <sub>1/2</sub> (θx/θy)	指向特性 Spatial distribution	選別電流 Sorting current If	順電流 Forward current If	順電流低減率 Forward current decrease rate ΔIf Derating start temp.		動作温度 Operating temperature Topr			保存温度 Storage temperature Tstg	
			x Typ.	y Typ.		Typ.	Max.	mA/°C	°C					°C	°C					
単位 (Units)																				
 7.81mg	VFJD1105W-5C63A		-	-	572	270	430	1.9	2.4	40 / 40		20	30	1.00	75	-40~+100	-40~+105	2,000		
	VFJY1105W-4C92D		-	-	589	470	680	1.9	2.4	40 / 40		20	30	1.00	75	-40~+100	-40~+105	2,000		
	VFR1105W-6C9		-	-	626	470	820	1.9	2.4	40 / 40		20	30	1.00	75	-40~+100	-40~+120	2,000		
 7.81mg	FKY1105W		-	-	589	1,000	2,200	2.2	2.6	35 / 35		20	30	1.00	75	-40~+100	-40~+105	2,000		
	FKA1105W		-	-	605	1,500	3,300	2.2	2.6	35 / 35		20	30	1.00	75	-40~+100	-40~+105	2,000		
	FKR1105W		-	-	624	1,000	2,200	2.2	2.6	35 / 35		20	30	1.00	75	-40~+100	-40~+105	2,000		
 2.1mg	YPY1113F-1215		-	-	572	6.3	10	1.9	2.4	140 / 150		5	15	0.21	25	-40~+85	-40~+100	4,000		
	FKY1113F		-	-	589	150	270	2.1	2.6	140 / 130		20	30	0.40	25	-40~+85	-40~+100	4,000		
	FKR1113F		-	-	625	150	275	2.1	2.6	140 / 130		20	30	0.40	25	-40~+85	-40~+100	4,000		

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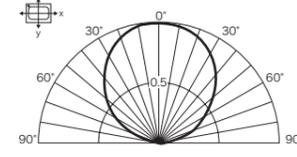
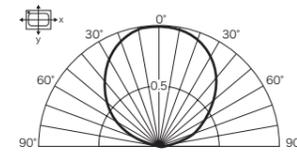
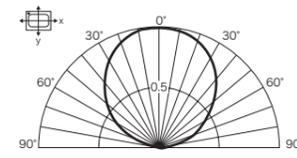
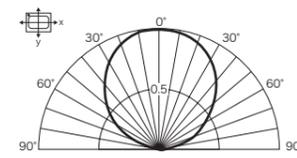
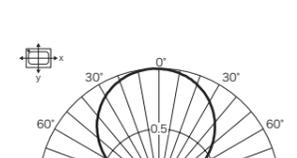
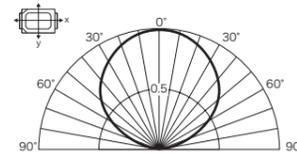
ULTRAVIOLET

INFRARED & SENSORS

VISIBLE LIGHT

INFORMATION

SINGLE-COLOR LEDs

パッケージ Package	品名 Part name	電気的光学的特性/Electro-optical characteristics										絶対最大定格/Absolute maximum ratings					標準梱包 数量 Standard qty./Reel	WEB	
		発光色 Emitted color	色度座標 Chromaticity coordinates <sup>*1</sup>		ドミナント発光波長 Dominant wavelength λd Typ.	発光光度 Luminous intensity Iv Min. Typ.		順電圧 Forward voltage Vf Typ. Max.		指向半値角 Half-intensity angle 2θ <sub>1/2</sub> (θx/θy)	指向特性 Spatial distribution	選別電流 Sorting current If	順電流 Forward current If	順電流低減率 Forward current decrease rate ΔIf		動作温度 Operating temperature Topr			保存温度 Storage temperature Tstg
			x Typ.	y Typ.		Typ.	Typ.	mA	mA/°C					°C					
単位 (Units)		-		nm	mcd		V		deg.	-	mA	mA	mA/°C	°C	°C	°C	pcs.		
L2.2 x W1.7 x H0.75  8.2mg	VXGW1152GDS-3C3J3		0.293	0.281	-	150	210	3.1	3.5	115 / 115		10	20	0.57	85	-40~+100	-40~+120	3,000	
	VXKW1152GDS-3D2Z2		0.243	0.237	-	1,200	1,950	2.9	3.5	115 / 115		30	40	1.14	85	-40~+100	-40~+120	3,000	
	VCTW1152GDS		0.2975	0.3028	-	2,200	3,500	2.8	3.2	115 / 115		30	40	1.14	85	-40~+100	-40~+120	3,000	
L2.2 x W1.7 x H0.75  8.2mg	VXGW1152GCS		0.200	0.267	-	68	94	3.1	3.5	115 / 115		10	20	0.57	85	-40~+100	-40~+120	3,000	
	VXKW1152GCS		0.200	0.267	-	1,000	2,150	2.9	3.5	115 / 115		30	40	1.14	85	-40~+100	-40~+120	3,000	
L2.2 x W1.7 x H0.75  8.2mg	VXGW1152GA3S		0.190	0.170	-	47	63	3.1	3.5	115 / 115		10	20	0.57	85	-40~+100	-40~+120	3,000	
	VXKW1152GA3S		0.190	0.170	-	680	1,690	2.9	3.5	115 / 115		30	40	1.14	85	-40~+100	-40~+120	3,000	
L2.2 x W1.7 x H0.75  8.2mg	VXLB1112GS		-	-	470	470	700	2.8	3.3	115 / 115		30	40	1.60	85	-40~+100	-40~+110	3,000	
	VCSG1112GS		-	-	525	1,000	1,400	2.8	3.2	115 / 115		20	30	1.20	85	-40~+100	-40~+110	3,000	
L2.2 x W1.7 x H0.75  8.2mg	VFSY1112GS-3CY2D		-	-	590	680	900	2.0	2.8	115 / 115		20	70	2.80	85	-40~+100	-40~+110	3,000	
	VFSV1112GS-3CY2A		-	-	613	680	1,000	2.0	2.8	115 / 115		20	70	2.80	85	-40~+100	-40~+110	3,000	
	VFSR1112GS-3CX2A		-	-	624	560	700	2.0	2.8	115 / 115		20	70	2.80	85	-40~+100	-40~+110	3,000	
L2.17 x W1.4 x H1.3  8mg	VXGW1158LDS-3C1Z2		0.284	0.280	-	100	140	3.1	3.5	115 / 115		10	20	0.57	85	-40~+100	-40~+120	3,000	

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ULTRAVIOLET

INFRARED & SENSORS

VISIBLE LIGHT

INFORMATION

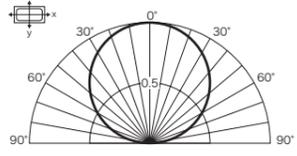
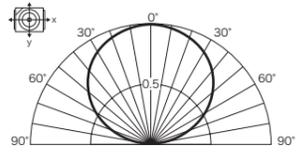
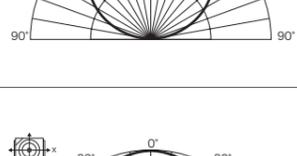
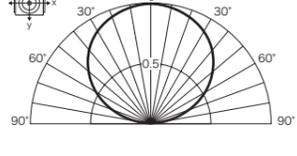
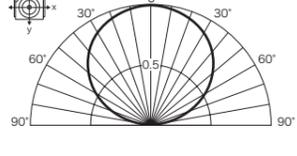
ULTRAVIOLET

INFRARED & SENSORS

VISIBLE LIGHT

INFORMATION

SINGLE-COLOR LEDs

パッケージ Package	品名 Part name	発光色 Emitted color	電気的光学的特性 / Electro-optical characteristics									絶対最大定格 / Absolute maximum ratings					標準梱包 数量 Standard qty./Reel	WEB	
			色度座標 Chromaticity coordinates <sup>*1</sup>		ドミナント発光波長 Dominant wavelength λd Typ.	発光光度 Luminous intensity Iv Min. Typ.		順電圧 Forward voltage Vf Typ. Max.		指向半値角 Half-intensity angle 2θ <sub>1/2</sub> (θx/θy)	指向特性 Spatial distribution	選別電流 Sorting current If	順電流 Forward current If	順電流低減率 Forward current decrease rate ΔIf Derating start temp.		動作温度 Operating temperature Topr			保存温度 Storage temperature Tstg
			x Typ.	y Typ.		Typ.	Typ.	V	deg.					mA	mA				
L3.0 x W1.4 x H0.67  7.4mg	VXLW1155GDS-3D7K3		0.304	0.298	-	3,300	4,000	2.8	3.3	115 / 115		30	170	5.67	95	-40~+100	-40~+120	3,000	
L3.5 x W2.8 x H1.9  33mg	VXGW1154LDS		0.292	0.294	-	120	170	3.1	3.5	115 / 115		10	20	0.57	85	-40~+100	-40~+120	2,000	
	VXKW1154LDS-3D4L3		0.316	0.356	-	1,800	2,550	2.9	3.5	115 / 115		30	40	1.14	85	-40~+100	-40~+120	2,000	
L3.5 x W2.8 x H1.9  33mg	VXKW1154LCS		0.200	0.267	-	1,200	2,550	2.9	3.5	115 / 115		30	40	1.14	85	-40~+100	-40~+120	2,000	
L3.5 x W2.8 x H1.9  33mg	VXKW1154LA3S		0.190	0.170	-	680	1,690	2.9	3.5	115 / 115		30	40	1.14	85	-40~+100	-40~+120	2,000	

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\*1 CIE1931に基づく / In accordance with CIE1931

ULTRAVIOLET

INFRARED & SENSORS

VISIBLE LIGHT

INFORMATION

ULTRAVIOLET

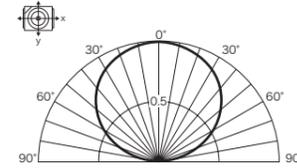
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VISIBLE LIGHT

INFORMATION

SINGLE-COLOR LEDs

パッケージ Package	品名 Part name	電気的光学的特性 / Electro-optical characteristics										絶対最大定格 / Absolute maximum ratings					標準梱包 数量 Standard qty./Reel	WEB	
		発光色 Emitted color	色度座標 Chromaticity coordinates <sup>-1</sup>		ドミナント発光波長 Dominant wavelength λd Typ.	発光光度 Luminous intensity Iv Min. Typ.		順電圧 Forward voltage Vf Typ. Max.		指向半値角 Half-intensity angle 2θ <sub>1/2</sub> (θx/θy)	指向特性 Spatial distribution	選別電流 Sorting current If	順電流 Forward current If	順電流低減率 Forward current decrease rate ΔIf Derating start temp.		動作温度 Operating temperature Topr			保存温度 Storage temperature Tstg
			x Typ.	y Typ.		Typ.	Typ.	Typ.	Max.					mA/°C	°C				
単位 (Units)		-		nm	mcd		V		deg.	-	mA	mA	mA/°C	°C	°C	°C	pcs.		
 <p>L3.5 x W2.8 x H1.9 33mg</p>	VXJB1104LSE		-	-	464	82	170	3.0	3.5	120 / 120		20	30	0.86	85	-40~+100	-40~+120	2,000	
	VFHG1104LS		-	-	561	18	25	2.0	2.5	120 / 120		20	30	0.86	85	-40~+100	-40~+120	2,000	
	VFJP1104LS		-	-	572	82	120	2.0	2.5	120 / 120		20	30	0.86	85	-40~+100	-40~+120	2,000	
	VFHY1104LS		-	-	589	120	170	2.0	2.5	120 / 120		20	30	0.86	85	-40~+100	-40~+120	2,000	
	VFJY1104LS		-	-	589	180	255	2.0	2.5	120 / 120		20	30	0.86	85	-40~+100	-40~+120	2,000	
	VFGY1104LS		-	-	589	470	645	2.2	2.6	120 / 120		50	70	1.43	71	-40~+100	-40~+120	2,000	
	VFSY1104LS		-	-	592	1,500	2,000	2.2	2.8	120 / 120		50	70	1.56	75	-40~+100	-40~+120	2,000	
	VFHA1104LS		-	-	606	120	170	2.0	2.5	120 / 120		20	30	0.86	85	-40~+100	-40~+120	2,000	
	VFGA1104LS		-	-	606	680	910	2.2	2.6	120 / 120		50	70	1.43	71	-40~+100	-40~+120	2,000	
	VFGV1104LS		-	-	616	680	940	2.2	2.6	120 / 120		50	70	1.43	71	-40~+100	-40~+120	2,000	
	VFSV1104LS		-	-	616	1,500	2,000	2.2	2.8	120 / 120		50	70	1.56	75	-40~+100	-40~+120	2,000	
	VFHR1104LS		-	-	626	100	140	2.0	2.5	120 / 120		20	30	0.86	85	-40~+100	-40~+120	2,000	
	VFJR1104LS		-	-	632	150	210	2.0	2.5	120 / 120		20	30	0.86	85	-40~+100	-40~+120	2,000	
	VFSR1104LS		-	-	626	1,500	2,000	2.2	2.8	120 / 120		50	70	1.56	75	-40~+100	-40~+120	2,000	



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ULTRAVIOLET

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VISIBLE LIGHT

INFORMATION

SINGLE-COLOR LEDs



Ta=25°C

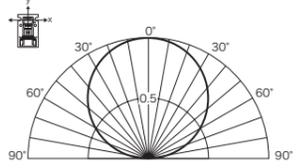
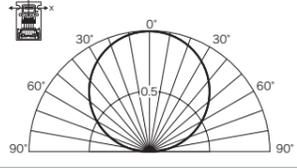
パッケージ Package	品名 Part name	発光色 Emitted color	電気的光学的特性 / Electro-optical characteristics								熱的特性 / Thermal characteristics		絶対最大定格 / Absolute maximum ratings					標準梱包 数量 Standard Qty./Reel	WEB			
			色度座標 Chromaticity coordinates <sup>*1</sup>		ドミナント発光波長 Dominant wavelength $\lambda_d$ Typ.	発光光束 Luminous flux $\Phi_v$		順電圧 Forward voltage $V_f$		指向半値角 Half-intensity angle $2\theta_{1/2}$ ( $\theta_x/\theta_y$ )	指向特性 Spatial distribution	選別電流 Sorting current $I_F$	熱抵抗 [ジャンクション-はんだ付け位置] Thermal resistance [Junction - solder point] $R_{th(j-s)}$	順電流 Forward current $I_F$	順電流低減率 Forward current decrease rate $\Delta I_F$	ジャンクション温度 Junction temperature $T_j$	動作温度 Operating temperature $T_{opr}$			保存温度 Storage temperature $T_{stg}$		
			x Typ.	y Typ.		Min.	Typ.	Typ.	Max.												°C/W	mA
単位 (Units)																						
L3.2 x W1.4 x H0.58  7.7mg	HXTW115RGSE-1000		0.3238	0.3301	-	19.6	22.0	2.8	3.0	115 / 115		50	15.0	-	200	-	150	-40~+125	-40~+125	3,000		
L3.2 x W1.4 x H0.58  7.7mg	HXTW115RGSE-1100		0.3238	0.3301	-	51.1	59.0	3.1	3.3	115 / 115		140	15.0	-	200	-	150	-40~+125	-40~+125	3,000		
L3.2 x W1.4 x H0.58  7.7mg	HXTY115RGSE-1000		0.5680	0.4194	590	11.0	13.0	2.8	3.0	115 / 115		50	18.0	-	200	-	150	-40~+125	-40~+125	3,000		
L3.2 x W1.4 x H0.58  7.7mg	HXTY115RGSE-1100		0.5680	0.4194	590	28.7	33.5	3.1	3.3	115 / 115		140	18.0	-	200	-	150	-40~+125	-40~+125	3,000		
L3.0 x W2.5 x H0.77  20mg	HCNW115AJTE		0.326	0.335	-	265	310	3.25	3.75	117 / 117		1,000	3.0	3.9	100~1,200	8.0	Tj 125	150	-40~+125	-40~+125	3,000	
L3.0 x W2.5 x H0.77  20mg	HCNY115AJTE		0.566	0.423	-	56	71	2.95	3.75	120 / 120		350	4.0	4.5	100~800	-	-	150	-40~+125	-40~+125	3,000	
L4.0 x W3.2 x H0.77  32mg	HCNW125DJTE		0.326	0.335	-	500	620	6.5	7.45	117 / 117		1,000	1.8	2.3	100~1,200	8.0	Tj 125	150	-40~+125	-40~+125	2,000	
L4.0 x W3.2 x H0.77  32mg	HCNY125DJTE		0.566	0.423	-	175	246	6.0	7.5	120 / 120		700	2.0	2.5	100~800	-	-	150	-40~+125	-40~+125	2,000	
L3.0 x W2.5 x H0.77  20mg	HFZV111AJTE		-	-	617	50	64	2.1	2.6	114 / 114		350	4.0	5.5	1,000	-	-	150	-40~+125	-40~+125	3,000	
L3.0 x W2.5 x H0.77  20mg	HFZR111AJTE		-	-	633	15	32	2.1	2.6	114 / 114		350	4.0	5.5	1,000	-	-	150	-40~+125	-40~+125	3,000	

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SINGLE-COLOR LEDs

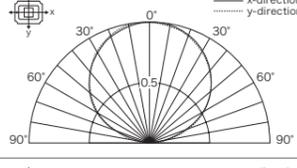
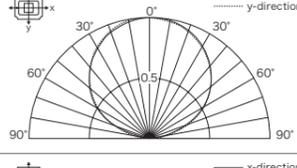
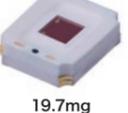
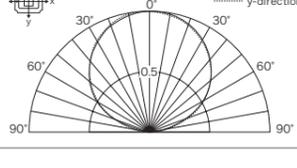
Ta=25°C

パッケージ Package	品名 Part name	発光色 Emitted color	電気的光学的特性/Electro-optical characteristics								熱的特性/ Thermal characteristics		絶対最大定格/Absolute maximum ratings					標準梱包 数量 Standard qty./Box	WEB			
			色度座標 Chromaticity coordinates <sup>*1</sup> x y Typ. Typ.		ドミナント発光波長 Dominant wavelength $\lambda_d$ Typ.	発光光束 Luminous flux $\Phi_v$ Min. Typ.		順電圧 Forward voltage $V_f$ Typ. Max.		指向半値角 Half-intensity angle $2\theta_{1/2}$ ( $\theta_x/\theta_y$ )	指向特性 Spatial distribution	選別電流 Sorting current $I_f$	熱抵抗 [ジャンクション-基板表面] Thermal resistance [Junction - board] $R_{th(j-b)}$ Typ. Max.	順電流 Forward current $I_f$	順電流低減率 Forward current decrease rate $\Delta I_f$ Derating start temp.	ジャンクション温度 Junction temperature $T_j$	動作温度 Operating temperature $T_{opr}$			保存温度 Storage temperature $T_{stg}$		
単位 (Units)			-		nm	lm		V		deg.	-	mA	°C/W	mA	mA/°C	°C	°C	°C	pcs.			
L31.5 x W21.0 x H7.73  7g	BUA1610M-10		0.325	0.335	-	1,700	1,800	15.5	17	120 / 120		1,000	0.8	1.00	200~ 1,500	-	-	150	-40~+85	-40~+125	150	
L31.5 x W21.0 x H9.3  7g	BUA1610M-T-10		0.325	0.335	-	1,700	1,800	15.5	17	120 / 120		1,000	0.8	1.00	200~ 1,500	-	-	150	-40~+85	-40~+125	150	

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Ta=25°C

パッケージ Package	品名 Part name	発光色 Emitted color	電気的光学的特性/Electro-optical characteristics								熱的特性/ Thermal characteristics		絶対最大定格/Absolute maximum ratings					標準梱包 数量 Standard qty./Reel	WEB			
			色度座標 Chromaticity coordinates <sup>*1</sup> x y Typ. Typ.		ドミナント発光波長 Dominant wavelength $\lambda_d$ Typ.	発光光束 Luminous flux $\Phi_v$ Min. Typ.		順電圧 Forward voltage $V_f$ Typ. Max.		指向半値角 Half-intensity angle $2\theta_{1/2}$ ( $\theta_x/\theta_y$ )	指向特性 Spatial distribution	選別電流 Sorting current $I_f$	熱抵抗 [ジャンクション-はんだ付け位置] Thermal resistance [Junction - solder point] $R_{th(j-s)}$ Typ. Max.	順電流 Forward current $I_f$	順電流低減率 Forward current decrease rate $\Delta I_f$ Derating start temp.	ジャンクション温度 Junction temperature $T_j$	動作温度 Operating temperature $T_{opr}$			保存温度 Storage temperature $T_{stg}$		
単位 (Units)			-		nm	lm		V		deg.	-	mA	°C/W	mA	mA/°C	°C	°C	°C	pcs.			
L3.0 x W2.5 x H0.77  19.7mg	GBHB1109JTE		-	-	448	25	40	3.25	3.75	117 / 117		1,000	2.8	3.8	1,200	25.0	Ts 100	150	-40~+125	-40~+125	3,000	
L3.0 x W2.5 x H0.77  19.7mg	GBHG1109JTE		-	-	525	170	240	3.25	3.75	117 / 117		1,000	5.3	5.6	1,200	25.0	Ts 100	150	-40~+125	-40~+125	3,000	
L3.0 x W2.5 x H0.77  19.7mg	GFZR1109JTE		-	-	634	20	43	2.2	2.6	117 / 117		350	4.5	5.5	1,050	26.25	Ts 85	150	-40~+125	-40~+125	3,000	

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※1 CIE1931に基づく/In accordance with CIE1931

ULTRAVIOLET

INFRARED & SENSORS

VISIBLE LIGHT

INFORMATION

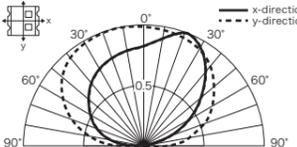
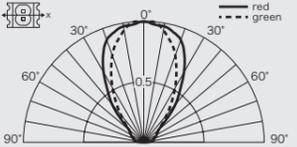
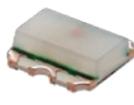
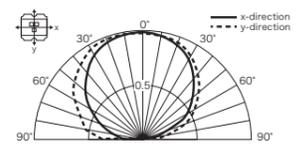
ULTRAVIOLET

INFRARED & SENSORS

VISIBLE LIGHT

INFORMATION

MULTICOLOR LEDs

パッケージ Package	品名 Part name	発光色 Emitted color	電気的光学的特性/Electro-optical characteristics								指向半値角 Half-intensity angle 2θ <sub>1/2</sub> (θx/θy)	指向特性 Spatial distribution	絶対最大定格/Absolute maximum ratings				標準梱包 数量 Standard qty./Reel	WEB		
			色度座標 Chromaticity coordinates <sup>*1</sup> x y Typ. Typ.		ドミナント発光波長 Dominant wavelength λd Typ.	発光光度 Luminous intensity I <sub>v</sub> Min. Typ.		順電圧 Forward voltage V <sub>F</sub> Typ. Max.		選別電流 Sorting current I <sub>F</sub>			順電流 Forward current I <sub>F</sub>	順電流低減率 Forward current decrease rate ΔI <sub>F</sub> Derating start temp.		動作温度 Operating temperature Topr			保存温度 Storage temperature Tstg	
単位 (Units)			-		nm	mcd		V		deg.	-	mA	mA	mA/°C	°C	°C	°C	pcs.		
 L1.6 x W1.5 x H0.7 3mg FRYPY1211C-0005			-	-	570	6.3	12	1.95	2.4	115 / 140		5	15	0.21	25	-40~+85	-40~+100	4,000		
			-	-	626	14	30	1.85	2.4											
 L3.0 x W2.5 x H1.5 13mg DRD1204W			-	-	572	70	130	2.0	2.4	θx 60		20	30	0.43	25	-40~+85	-40~+100	2,500		
			-	-	626	100	184	2.0	2.4											θx 70
 L2.04 x W2.04 x H0.6 3.4mg ARGB1313HS			-	-	473	-	180	3.1	3.8	125 / 145		12	30	0.750	60	-40~+85	-40~+100	4,000		
			-	-	527	-	850	3.2	3.8											
			-	-	622	-	450	2.1	2.8											
			0.300	0.320	-	-	1,350	-	-											
												Blue : 12 Green : 22 Red : 26	Blue : 20 Green : 25 Red : 30	-	-					

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\*1 CIE1931に基づく/In accordance with CIE1931

\*2 2色または3色点灯時/When two or three LEDs with different colors are illuminated

ULTRAVIOLET

INFRARED & SENSORS

VISIBLE LIGHT

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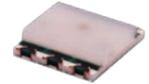
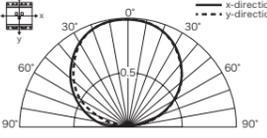
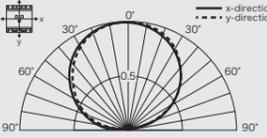
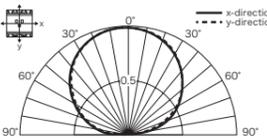
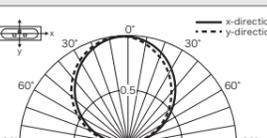
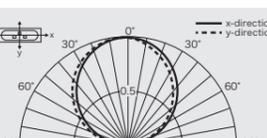
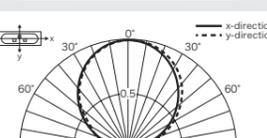
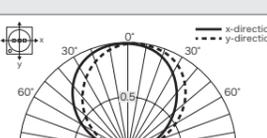
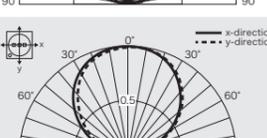
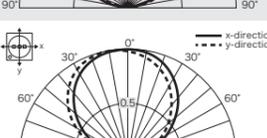
ULTRAVIOLET

INFRARED & SENSORS

VISIBLE LIGHT

INFORMATION

MULTICOLOR LEDs

パッケージ Package	品名 Part name	発光色 Emitted color	電気的光学的特性/Electro-optical characteristics								指向特性 Spatial distribution	絶対最大定格/Absolute maximum ratings				標準梱包 数量 Standard qty./Reel	WEB		
			色度座標 Chromaticity coordinates <sup>*1</sup>		ドミナント発光波長 Dominant wavelength $\lambda_d$	発光光度 Luminous intensity		順電圧 Forward voltage $V_F$		指向半値角 Half-intensity angle $2\theta_{1/2}$ ( $\theta_x/\theta_y$ )		選別電流 Sorting current $I_F$	順電流 Forward current $I_F$	順電流低減率 Forward current decrease rate $\Delta I_F$				動作温度 Operating temperature Topr	保存温度 Storage temperature Tstg
単位 (Units)			-		nm	mcd		V		deg.	-	mA	mA	mA/°C	°C	°C	°C	pcs.	
L3.0 x W2.8 x H0.7  9.4mg	ARGB131CWSE-10		-	-	467	-	250	3.0	3.8	120 / 120		14	30 20 <sup>#2</sup>	0.750 0.500 <sup>#2</sup>	60	-40~+85	-40~+100	4,000	
			-	-	527	-	2,000	2.7	3.5	120 / 120		18	30 25 <sup>#2</sup>	0.750 0.625 <sup>#2</sup>	60				
			-	-	621	-	850	2.1	2.8	120 / 120		26	30 30 <sup>#2</sup>	0.750 0.750 <sup>#2</sup>	60				
			0.300	0.320	-	-	3,000	-	-	-	-	-	Blue : 14 Green : 18 Red : 26	Blue : 20 Green : 25 Red : 30	-				
L1.1 x W4.5 x H1.5  14mg	ARGB131DFSE-10		-	-	467	-	250	3.0	3.8	110 / 110		15	30 20 <sup>#2</sup>	0.750 0.500 <sup>#2</sup>	60	-40~+85	-40~+100	2,500	
			-	-	527	-	2,000	2.7	3.5	110 / 110		17	30 25 <sup>#2</sup>	0.750 0.625 <sup>#2</sup>	60				
			-	-	621	-	900	2.1	2.8	110 / 110		26	30 30 <sup>#2</sup>	0.750 0.750 <sup>#2</sup>	60				
			0.300	0.320	-	-	3,050	-	-	-	-	-	Blue : 15 Green : 17 Red : 26	Blue : 20 Green : 25 Red : 30	-				
L3.0 x W2.8 x H0.6  10mg	CRGB1314ASE-500		-	-	469	100	300	3.1	3.7	120 / 120		14	25 20 <sup>#2</sup>	0.65 0.50 <sup>#2</sup>	80	-40~+100	-40~+120	4,000	
			-	-	532	1,500	2,080	3.2	3.9			23	25 25 <sup>#2</sup>	0.65 0.65 <sup>#2</sup>	80				
			-	-	622	560	820	2.1	2.8			22	30 30 <sup>#2</sup>	0.75 0.75 <sup>#2</sup>	80				
			0.300	0.320	-	2,060	3,100	-	-	-	-	-	Blue : 14 Green : 23 Red : 22	Blue : 20 Green : 25 Red : 30	-				

\*製品画像は代表的なものです/All pictures shown are for illustration purposes only. Actual product may vary due to product enhancement.

\*1 CIE1931に基づく/In accordance with CIE1931

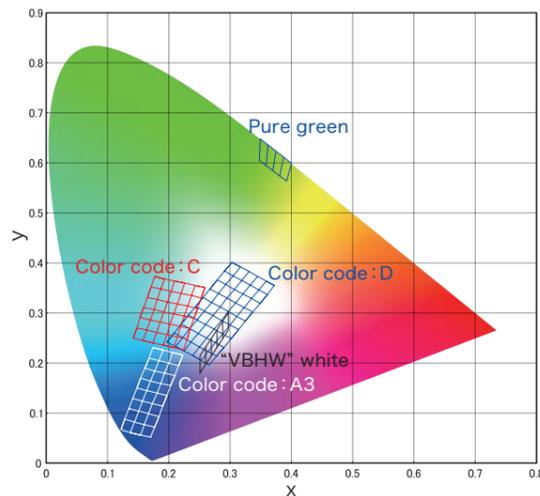
\*2 2色または3色点灯時/When two or three LEDs with different colors are illuminated

# INFORMATION

詳細情報

● 車載インテリア照明 / Automotive interior lighting

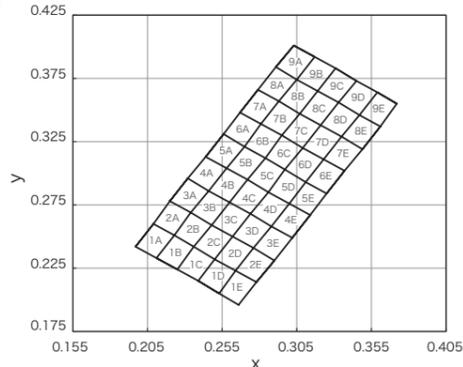
[色度 / Chromaticity]



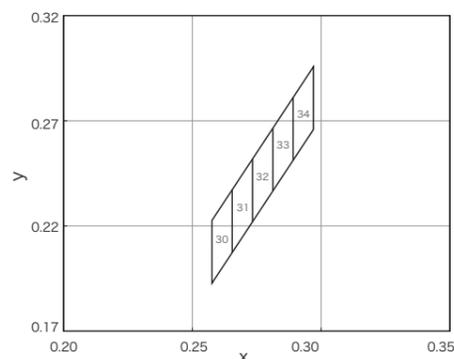
当社では、製品名の頭に「V」が付いたものを「Vシリーズ」と呼んでおり、車載インテリア機器の要求品質を満たす高信頼性製品です。お客様から特にご要望が多い特殊色も準備しております。車載機器に限らず他の用途でもご使用頂けます。製品パッケージにより対応可能な範囲が異なりますので、詳細は弊社営業までお問合せ願います。

At Stanley Electric, product names beginning with "V" are called "V series". These are highly reliable products that satisfy the quality requirements stipulated for automotive accessories. Stanley Electric has commercialized some special colors that are in high demand by our customers. This series is appropriate not only for automotive use, but also for other applications. Since the available bin range varies depending on the package, please contact our sales representatives for details.

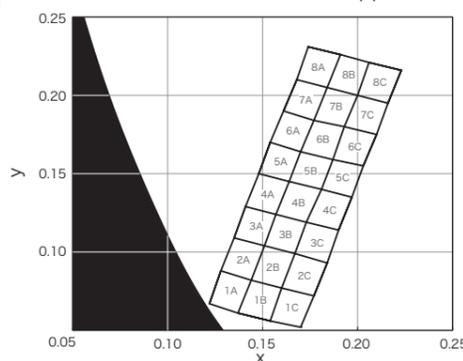
Color code : D (標準白色 / Standard white)



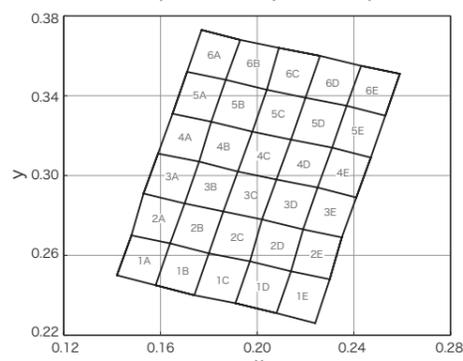
VBHW1149JTE-100 (白色 / White)



Color code : A3 (サファイアブルー / Sapphire blue)



Color code : C (アイスブルー / Ice blue)



[ドミナント波長 / Dominant wavelength]

Bin	ドミナント波長 / Dominant wavelength, $\lambda_d$ (nm)							
A	460 - 464			567 - 570			610 - 613	620 - 626
B	464 - 468	520 - 525		570 - 573			613 - 616	626 - 632
C	468 - 472	525 - 530	558 - 561	573 - 576	583 - 586	603 - 606	616 - 619	632 - 638
D	472 - 476	530 - 535	561 - 564	576 - 579	586 - 589	606 - 609	619 - 622	
E		535 - 540	564 - 567		589 - 592	609 - 612		
F				592 - 595				

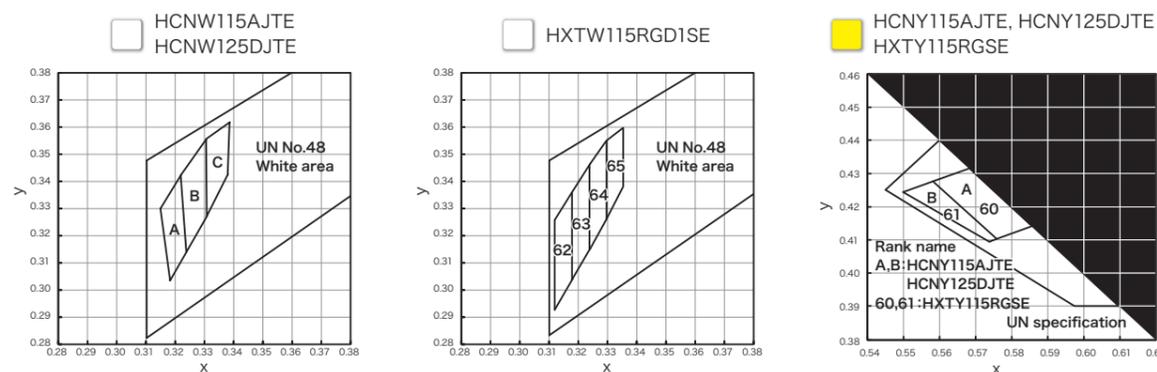
※発光色アイコンはイメージであり、実際の色と異なる場合があります。  
The above icons are for reference and may differ from the actual colors.

[光度 / Luminous intensity]

Bin	光度 / Luminous intensity lv (mcd)		Bin	光度 / Luminous intensity lv (mcd)		Bin	光度 / Luminous intensity lv (mcd)		Bin	光度 / Luminous intensity lv (mcd)	
	Min.	Max.		Min.	Max.		Min.	Max.		Min.	Max.
AX	5.6	6.8	B7	33	39	C4	180	220	D1	1,000	1,200
AY	6.8	8.2	B8	39	47	C5	220	270	D2	1,200	1,500
AZ	8.2	10	B9	47	56	C6	270	330	D3	1,500	1,800
B1	10	12	BX	56	68	C7	330	390	D4	1,800	2,200
B2	12	15	BY	68	82	C8	390	470	D5	2,200	2,700
B3	15	18	BZ	82	100	C9	470	560	D6	2,700	3,300
B4	18	22	C1	100	120	CX	560	680	D7	3,300	3,900
B5	22	27	C2	120	150	CY	680	820	D8	3,900	4,700
B6	27	33	C3	150	180	CZ	820	1,000	D9	4,700	5,600

● 車載エクステリア照明 / Automotive exterior lighting

[色度 / Chromaticity]



車載エクステリア照明は法規制により、その発光色の範囲が規定されています。当社では、製品名の頭に「H」が付いたもの等に対して国際的なエクステリア照明用規格に準拠した色度ランクを設定しています。

Color range for automotive exterior lighting is defined according to laws and regulations. Regarding product names beginning with "H", etc., Stanley's chromaticity bins for exterior lighting are set according to international regulations.

	品名 / Part name	製品詳細 / Product specifications
A	ARGB1313HS	50 ~ 51
	ARGB131CWSE-10	52 ~ 53
	ARGB131DFSE-10	52 ~ 53
B	BUA1610M-10	48 ~ 49
	BUA1610M-T-10	48 ~ 49
	BXMW115HGSE-100	24 ~ 25
	BXMW115HGSE-200	24 ~ 25
	BXMW115HGSE-300	24 ~ 25
	BXMW115HGSE-400	24 ~ 25
C	CRGB1314ASE-500	52 ~ 53
D	DRD1204W	50 ~ 51
F	FA1101C-2005-M	30 ~ 31
	FA1101C-M	30 ~ 31
	FHA1105P	28 ~ 29
	FHD1105P	28 ~ 29
	FHR1105P	28 ~ 29
	FHY1105P	28 ~ 29
	FKA1105W	38 ~ 39
	FKA1112H	36 ~ 37
	FKR1105W	38 ~ 39
	FKR1112H	36 ~ 37
	FKR1113F	38 ~ 39
	FKY1105W	38 ~ 39
	FKY1112H	36 ~ 37
	FKY1113F	38 ~ 39
	FR1101C-2005-M	30 ~ 31
	FR1101C-M	30 ~ 31
	FRYPY1211C-0005	50 ~ 51
	FWR1107MS	14 ~ 15
	FWR1108MS	14 ~ 15
	FY1101C-2005-M	30 ~ 31
FY1101C-M	30 ~ 31	
G	GBHB1109JTE	48 ~ 49
	GBHG1109JTE	48 ~ 49
	GFZR1109JTE	48 ~ 49
H	HAN1102W-1	16 ~ 17
	HCNW115AJTE	46 ~ 47
	HCNW125DJTE	46 ~ 47
	HCHY115AJTE	46 ~ 47
	HCHY125DJTE	46 ~ 47
	HDN1102W	16 ~ 17
	HFZR111AJTE	46 ~ 47
	HFZV111AJTE	46 ~ 47
	HXTW115RGSE-1000	46 ~ 47
	HXTW115RGSE-1100	46 ~ 47
	HXTY115RGSE-1000	46 ~ 47
	HXTY115RGSE-1100	46 ~ 47
	J	JFN1104LS
JFN1105H		14 ~ 15

	品名 / Part name	製品詳細 / Product specifications
J	JGN1104LS	14 ~ 15
	JGN1105H	14 ~ 15
K	KU163C	20 ~ 21
	KUA0118A	20 ~ 21
	KUA0121C	20 ~ 21
L	LZU4E365-500	6 ~ 7
M	MJN1107MS	14 ~ 15
	MJN1108MS	14 ~ 15
T	TAN1105W	16 ~ 17
	TAN110EF	16 ~ 17
	TDN1101W	16 ~ 17
	TDN1105W-23	16 ~ 17
	TDN1111C	16 ~ 17
	TPP1101WA	18 ~ 19
	TPS1101WA	18 ~ 19
	TPS1105WA	18 ~ 19
	TPS1191RB-2	18 ~ 19
	TPS1195WB-1	18 ~ 19
U	UDN1ZE65	10 ~ 11
	UEN1ZE11085	10 ~ 11
	UGN1ZE140110	10 ~ 11
V	VBHW1149JTE-100	24 ~ 25
	VCSG1112GS	40 ~ 41
	VCTW1152GDS	40 ~ 41
	VFGA1104LS	44 ~ 45
	VFGV1104LS	44 ~ 45
	VFGY1104LS	44 ~ 45
	VFHA1104LS	44 ~ 45
	VFHA1104P-4C42C	32 ~ 33
	VFHA1111C-3BZ2C	28 ~ 29
	VFHA1112H-3BZ2C	36 ~ 37
	VFHA1116P-4C82C	34 ~ 35
	VFHD1104P-4BY2B	32 ~ 33
	VFHD1111C-3B72B	28 ~ 29
	VFHD1112H-3B72B	36 ~ 37
	VFHD1116P-4C32B	34 ~ 35
	VFHG1104LS	44 ~ 45
	VFHL1104P-4B63C	32 ~ 33
	VFHL1111C-4B23C	28 ~ 29
	VFHL1112H-4B13C	36 ~ 37
	VFHL1116P-4BX3C	34 ~ 35
VFHR1104LS	44 ~ 45	
VFHR1104P-4C42A	32 ~ 33	
VFHR1111C-3BY2A	28 ~ 29	
VFHR1112H-3BY2A	36 ~ 37	
VFHR1116P-4C82A	34 ~ 35	
VFHV1104P-4C62B	32 ~ 33	
VFHV1111C-3BY2B	28 ~ 29	
VFHV1112H-3BZ2B	36 ~ 37	

	品名 / Part name	製品詳細 / Product specifications
V	VFHY1104LS	44 ~ 45
	VFHY1104P-4C42D	32 ~ 33
	VFHY1111C-3BX2D	28 ~ 29
	VFHY1112H-3BY2D	36 ~ 37
	VFHY1116P-4C82D	34 ~ 35
	VFJD1105W-5C63A	38 ~ 39
	VFJD1116P-4C62B	34 ~ 35
	VFJP1104LS	44 ~ 45
	VFJR1104LS	44 ~ 45
	VFJY1104LS	44 ~ 45
	VFJY1105W-4C92D	38 ~ 39
	VFR1105W-6C9	38 ~ 39
	VFSR1104LS	44 ~ 45
	VFSR1112GS-3CX2A	40 ~ 41
	VFSV1104LS	44 ~ 45
	VFSV1112GS-3CY2A	40 ~ 41
	VFSY1104LS	44 ~ 45
	VFSY1112GS-3CY2D	40 ~ 41
	VJDA1104P-4D12C	32 ~ 33
	VJDA1111C-4C72C	28 ~ 29
	VJDA1116P-4D52C	34 ~ 35
	VJDR1104P-4C81C	32 ~ 33
	VJDR1104P-4CZ2A	32 ~ 33
	VJDR1111C-4C21C	28 ~ 29
	VJDR1111C-4C52A	28 ~ 29
	VJDR1116P-4CZ1C	34 ~ 35
	VJDR1116P-4D32A	34 ~ 35
	VJDV1104P-4D13A	32 ~ 33
	VJDV1111C-4C74A	28 ~ 29
	VJDV1116P-4D43A	34 ~ 35
	VJDY1104P-4CY3C	32 ~ 33
	VJDY1111C-4C54C	28 ~ 29
	VJDY1116P-4D33C	34 ~ 35
	VLJW115LCS	24 ~ 25
	VLKW115MCR	24 ~ 25
	VMFN1107MS	12 ~ 13
	VMFN1108MS	12 ~ 13
	VMGN1107MS	12 ~ 13
	VMGN1108MS	12 ~ 13
	VMKN1107MS	12 ~ 13
VMNN1107MS	12 ~ 13	
VMNN1108MS	12 ~ 13	
VMNN110CMS	12 ~ 13	
VMNN110FMS	12 ~ 13	
VMPN1107MS	12 ~ 13	
VMPN1108MS	12 ~ 13	
VMPN110CMS	12 ~ 13	
VMPN110FMS	12 ~ 13	
VTAN1111C	16 ~ 17	

	品名 / Part name	製品詳細 / Product specifications
V	VTAN1116P	16 ~ 17
	VTPS1102HA	18 ~ 19
	VTPS1192HB	18 ~ 19
	VXFW115JCR	24 ~ 25
	VXGW1151CA3S-3BXV2	26 ~ 27
	VXGW1151CCS-3BYZ2	26 ~ 27
	VXGW1151CDS-3BZD3	26 ~ 27
	VXGW1152GA3S	40 ~ 41
	VXGW1152GCS	40 ~ 41
	VXGW1152GDS-3C3J3	40 ~ 41
	VXGW1154LDS	42 ~ 43
	VXGW1158LDS-3C1Z2	40 ~ 41
	VXJB1104LSE	44 ~ 45
	VXJW115ACA3S-3C3W2	26 ~ 27
	VXJW115ACCS	26 ~ 27
	VXJW115ACDS-3C5L3	26 ~ 27
	VXKB111ACS-3C43B	26 ~ 27
	VXKW1152GA3S	40 ~ 41
VXKW1152GCS	40 ~ 41	
VXKW1152GDS-3D2Z2	40 ~ 41	
VXKW1154LA3S	42 ~ 43	
VXKW1154LCS	42 ~ 43	
VXKW1154LDS-3D4L3	42 ~ 43	
VXKW115ACA3S-3CXK8	26 ~ 27	
VXKW115ACCS	26 ~ 27	
VXKW115ACDS-3CYC3	26 ~ 27	
VXLB1112GS	40 ~ 41	
VXLW1155GDS-3D7K3	42 ~ 43	
X	XPG1111C	30 ~ 31
Y	YBG1101C-M	30 ~ 31
	YPY1101C-2005-M	30 ~ 31
	YPY1101C-M	30 ~ 31
	YPY1113F-1215	38 ~ 39
Z	ZEUBE265	6 ~ 7

ULTRAVIOLET

INFRARED & SENSORS

VISIBLE LIGHT

INFORMATION

ULTRAVIOLET

INFRARED & SENSORS

VISIBLE LIGHT

INFORMATION

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## Website

### Stanley Electronic Components

データシート、カタログ、サンプル購入など  
Datasheets, catalogs, samples, etc.

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<https://www.stanley-components.com/en/>

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- このカタログの内容は、2025年1月現在のものです。

- The performance and specifications presented in this catalog may be revised without prior notice to reflect advancements in technological development.
- The contents of this catalog are current as of January 2025.

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