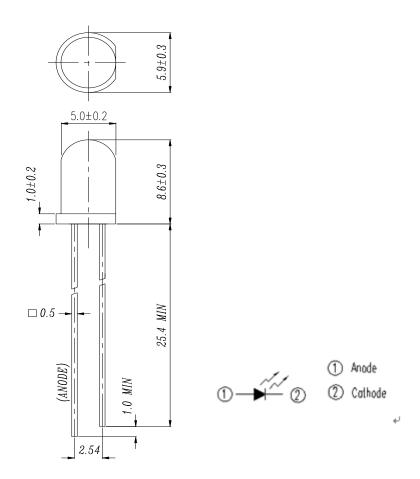
Applications

- Free air transmission system
- Optoelectronic switch
- Floppy disk drive
- Smoke detector
- Infrared applied system

Device Selection Guide

Dout No	Chip	I a con Cala	
Part No.	Material	Lens Color	
IR	GaAlAs	Blue	

Package Dimensions



Notes: 1. All dimensions are in millimeters

2. Tolerances unless dimensions ±0.25mm

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Rating	Units
Continuous Forward Current	I_{F}	100	mA
Peak Forward Current(*1)	I_{FP}	1.0	A
Reverse Voltage	V_R	5	V
Operating Temperature	T _{opr}	-40 ~ +85	$^{\circ}\!\mathbb{C}$
Storage Temperature	T_{stg}	-40 ~ +100	$^{\circ}\!\mathbb{C}$
Soldering Temperature(*2)	T_{sol}	260	$^{\circ}\!\mathbb{C}$
Power Dissipation at(or below)	P_d	150	mW
25°C Free Air Temperature			

Notes: *1: I_{FP} Conditions--Pulse Width $\leq 100 \mu$ s and Duty $\leq 1\%$.

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Condition	Min.	Тур.	Max.	Units	
Radiant Intensity	Ie	I _F =20mA	7.8	20	48	mW/sr	
		$I_F \!\!=\!\! 100 mA$ Pulse Width $\leq 100~\mu$ s ,Duty $\leq 1\%$		85			
		$I_F=1 A$ Pulse Width $\leq 100 \mu$ s ,Duty $\leq 1\%$.		750			
Peak Wavelength	λp	I _F =20mA		940	1	nm	
Spectral Bandwidth	Δλ	I _F =20mA		45		nm	
Forward Voltage V _F		I _F =20mA		1.2	1.5		
	V_{F}	$I_F \!\!=\!\! 100mA$ Pulse Width $\leq 100~\mu$ s ,Duty $\leq 1\%$		1.4	1.8	V	
		$I_F=1A$ Pulse Width $\leq 100 \mu$ s ,Duty $\leq 1\%$.		2.6	4.0		
Reverse Current	I_R	$V_R=5V$			10	μ A	
View Angle	2 \theta 1/2	I _F =20mA		20		deg	

^{*2:}Soldering time ≤ 10 seconds.

Rank

Condition: I_F=20mA Unit: mW/sr

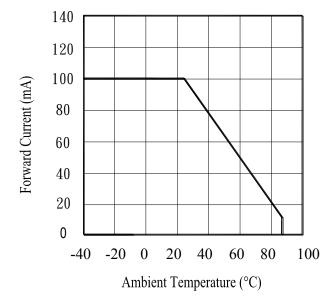
Bin Number	M	N	P	Q	R
Min	7.8	11.0	15.0	21.0	30.0
Max	12.5	17.6	24.0	34.0	48.0

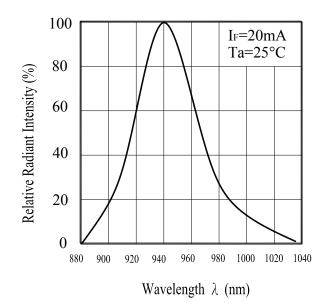
Note:

Typical Electro-Optical Characteristics Curves

Fig.1 Forward Current vs. mbient Temperature

Fig.2 Spectral Distribution





^{*}Measurement Uncertainty of Forward Voltage: ±0.1V

^{*}Measurement Uncertainty of Luminous Intensity: ±10%

^{*}Measurement Uncertainty of Dominant Wavelength ±1.0nm

Fig.3 Peak Emission Wavelength vs.
Ambient Temperature

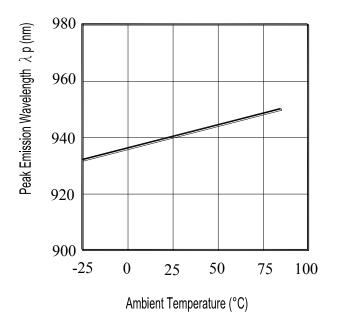
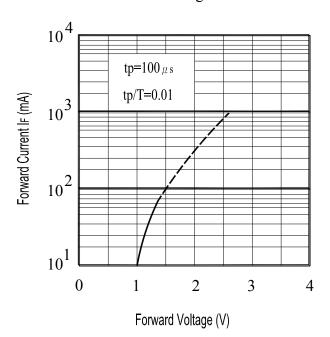


Fig.4 Forward Current vs. Forward Voltage



Typical Electro-Optical Characteristics Curves

Fig.5 Radiant Intensity vs.
Forward Current

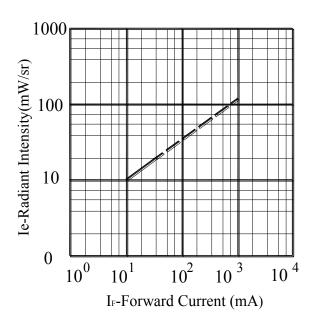
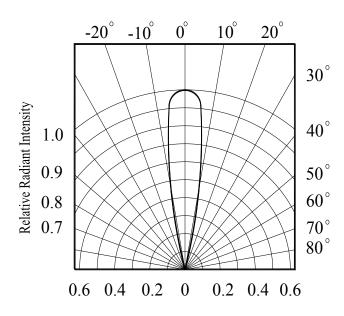


Fig.6 Relative Radiant Intensity vs.

Angular Displacement



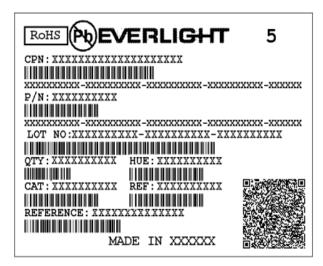


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Packing Quantity Specification

- 1. 200~500PCS/1Bag,5Bags/1Box
- 2. 10Boxes/1Carton

Label Form Specification



CPN: Customer's Production Number

P/N : Production Number QTY: Packing Quantity

CAT: Ranks

HUE: Peak Wavelength

REF: Reference

LOT No: Lot Number

X: Month

Reference: Identify Label Number

DISCLAIMER

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- 2. The product meets EVERLIGHT published specification for a period of twelve (12) months from date of shipment.
- 3. The graphs shown in this datasheet are representing typical data only and do not show guaranteed values.
- 4. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. EVERLIGHT assumes no responsibility for any damage resulting from the use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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