EVERLIGHT

DATASHEET

Top view LEDs 67-22/R6G6C-B09/2T



Features

- . P-LCC-4 package
- . Optical indicator
- . Colorless clear window
- . Ideal for backlight and light pipe application
- . Inter reflector
- . Wide viewing angle
- . Suitable for vapor-phase reflow.
- . Computable with automatic placement equipment
- . Available on tape and reel (8mm Tape)
- . Pb-free
- . The product itself will remain within RoHS compliant version

Applications

- . Telecommunication: indicator and backlighting in telephone and fax
- . Flat backlight for LCD's, switches and symbols
- . Light pipe application
- . General use

Device Selection Guide

Chip Materials		Emitted Color	Resin Color	
R6	AlGaInP	Brilliant-Red	Water clear	
G6	AlGaInP	Brilliant Yellow Green	Water clear	

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol		Rating	Unit	
Reverse Voltage	VR		5	V	
Forward Current	lF	R6 G6	25 25	— mA	
Peak Forward Current	Ifp	R6 G6	60 60	— mA	
Power Dissipation	Pd	R6 G6	60 60	— mW	
Operating Temperature	T _{opr}		-40 ~ +85	°C	
Storage Temperature	Tstg		-40 ~ +90	°C	
Thermal Desistence	Rth _{J-A}		500	K/W	
Thermal Resistance	Rth _{J-S}		300	K/W	
ESD	ESDHBM		2000	V	
(Classification acc. AEC Q101) ESD _{MM}		200	V		
Soldering Temperature T _{sol}		Reflow Soldering : 260 $^\circ\!\!\mathbb{C}$ for 10 sec. Hand Soldering : 350 $^\circ\!\!\mathbb{C}$ for 3 sec.			

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol		Min.	Тур.	Max.	Unit	Condition
Luminous Intensity	Iv	R6	57		140	mcd	I _F =20mA
Lummous mensity		G6	36		90	mcd	1F–20IIIA
Viewing Angle	2 0 1/2			130		deg	I _F =20mA
Deals Wayalan oth	λp	R6		632		nm	I _F =20Ma
Peak Wavelength		G6		575			
Dominant Wavelength	λd	R6	621		627	nm	I _F =20mA
Dominant wavelength		G6	570		574		
Smoothym Dadiation Dandyyidth	^ J	R6		20		nm	I _F =20mA
Spectrum Radiation Bandwidth	Δλ	G6		20			
Formwood Voltage	V _F	R6	1.75		2.35	V	I _F =20mA
Forward Voltage		G6	1.75		2.35		
Reverse Current	I _R				10	μA	V _R =5V

Note:

1. Tolerance of Luminous Intensity: ±11%

2. Tolerance of Dominant Wavelength: ±1nm

3. Tolerance of Forward Voltage: ±0.1V

Bin Range of Luminous Intensity

Chip	Bin Code	Min.	Max.	Unit	Condition
	P2	57	72	mcd	I _F =20mA
D.C	Q1	72	90		
R6	Q2	90	112		
	R1	112	140		
	N2	36	45		
G6	P1	45	57		
	P2	57	72		
	Q1	72	90]	

Bin Range of Forward Voltage

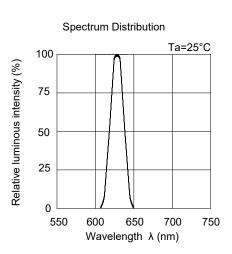
Chip	Bin Code	Min.	Max.	Unit	Condition
	0	1.75	1.95	V	I _F =20mA
R6	1	1.95	2.15		
	2	2.15	2.35		
	0	1.75	1.95		
G6	1	1.95	2.15		
	2	2.15	2.35		

Note: Tolerance of Dominant Wavelength: ±1nm

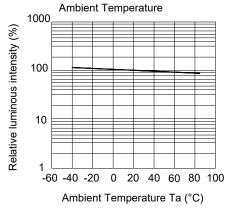
DATASHEET SMD • REFLECTOR 67-22/R6G6C-B09/2T

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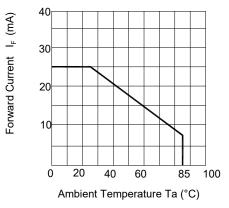


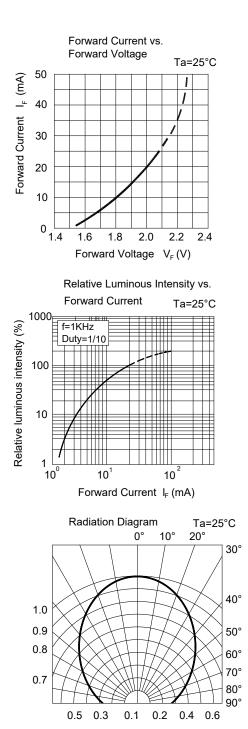


Relative Luminous Intensity vs.





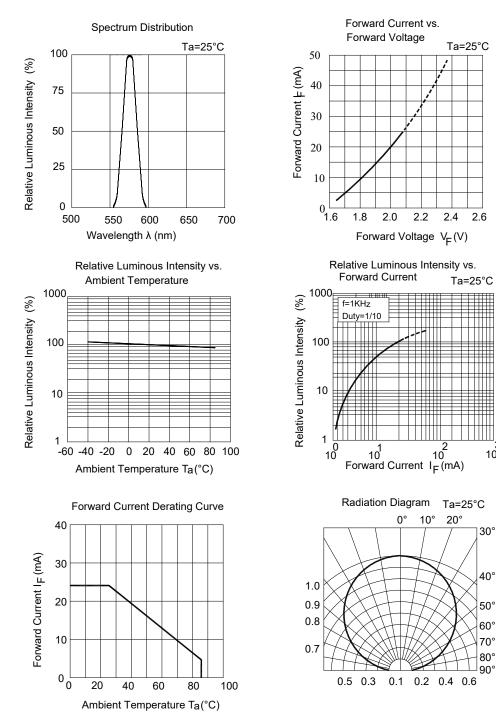




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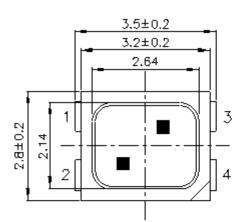
Typical Electro-Optical Characteristics Curves(G6)

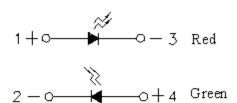


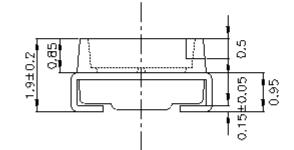
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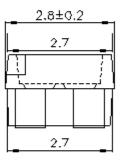
3 10

Package Dimension

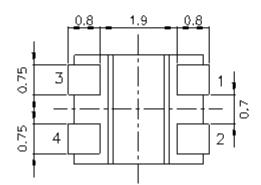


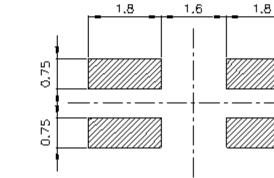






Recommended Solder Pad





Note: Tolerances unless mentioned ±0.1mm. Unit = mm

0.7

Moisture Resistant Packing Materials

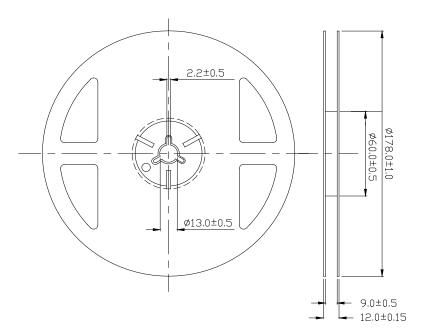
Label Explanation



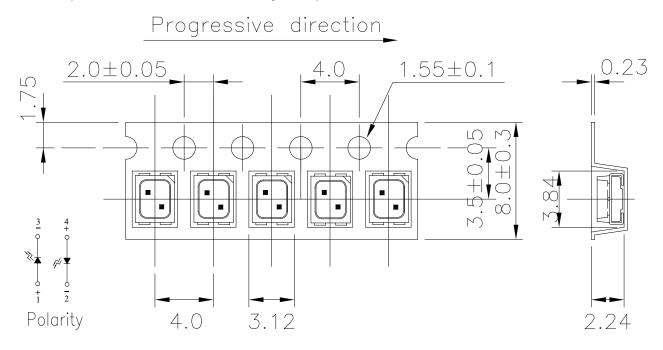
CPN: Customer's Product Number P/N: Product Number

- QTY: Packing Quantity
- CAT: Luminous Intensity Rank
- HUE: Dom. Wavelength Rank
- REF: Forward Voltage Rank
- LOT No: Lot Number

Reel Dimensions

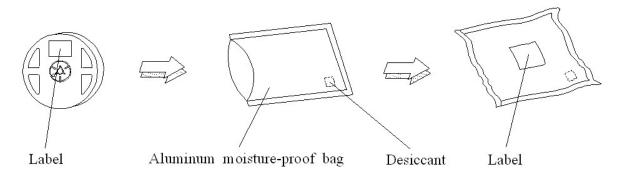


Carrier Tape Dimensions: Loaded Quantity 2000 pcs Per Reel



Note: Tolerances unless mentioned ±0.1mm. Unit = mm

Moisture Resistant Packing Process



Note: Tolerances unless mentioned ±0.1mm. Unit = mm

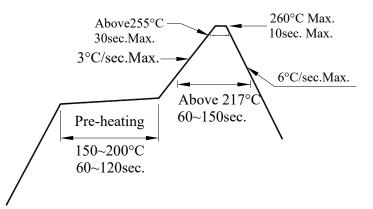
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Precautions for Use

1. Over-current-proof

Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen).

- 2. Storage
- 2.1 Do not open moisture proof bag before the products are ready to use.
- 2.2 Before opening the package, the LEDs should be kept at 30° C or less and 90%RH or less.
- 2.3 After opening the package: The LED's floor life are 168 hours under 30℃ or less and 60% RH or less. If unused LEDs remain, it should be stored in moisture proof packages.
- 2.4 If the moisture absorbent material (silica gel) has faded away or the LEDs have exceeded the storage time, baking treatment should be performed using the following conditions. Baking treatment : $60\pm5^{\circ}$ C for 24 hours.
- 3. Soldering Condition
 - 3.1 Pb-free solder temperature profile

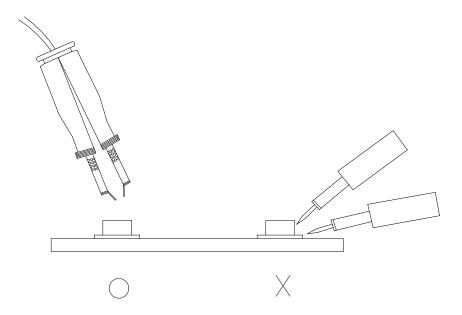


- 3.2 Reflow soldering should not be done more than two times.
- 3.3 When soldering, do not put stress on the LEDs during heating.
- 3.4 After soldering, do not warp the circuit board.
- 4. Soldering Iron

Each terminal is to go to the tip of soldering iron temperature less than 350° C for 3 seconds within once in less than the soldering iron capacity 25W. Leave two seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of the hand solder.

5. Repairing

Repair should not be done after the LEDs have been soldered. When repairing is unavoidable, a double-head soldering iron should be used (as below figure). It should be confirmed beforehand whether the characteristics of the LEDs will or will not be damaged by repairing.



DISCLAIMER

- 1. EVERLIGHT reserves the right(s) on the adjustment of product material mix for the specification.
- 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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