

DATASHEET

Technical Data Sheet 1.6mm round Subminiature Side Looking Infrared LED IR26-71C/L302/TR8

Features

- Small double-end package
- Low forward voltage
- Good spectral matching to Si photo detector
- Package in 8mm tape on 7["] diameter reel.
- Pb free
- The product itself will remain within RoHS compliant version.
- Compliance with EU REACH.
- Compliance Halogen Free .(Br <900 ppm ,Cl <900 ppm , Br+Cl < 1500 ppm)

Description

• IR26-71C/L302/TR8 is an infrared emitting diode in miniature SMD package which is molded in a water clear plastic with spherical top view lens. The device is spectrally matched with silicon photodiode and phototransistor.

Applications

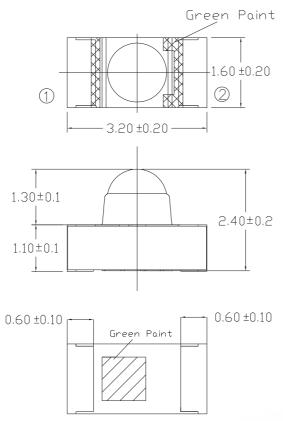
• Infrared applied system

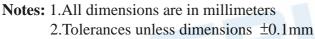
Device Selection Guide

Device No.	Chip Material	Lens Color
IR26-71C/L302/TR8	GaAlAs	Water clear

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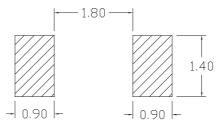
Package Dimensions



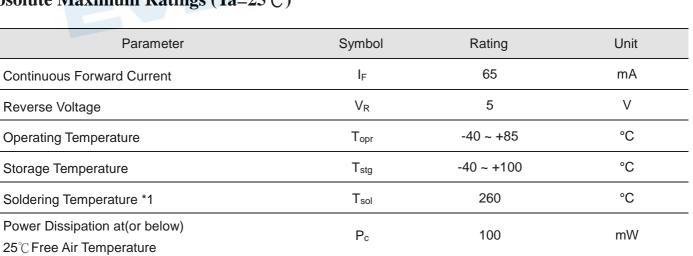


Absolute Maximum Ratings (Ta=25°C)





Recommended Soldering Pattern for Side Looker



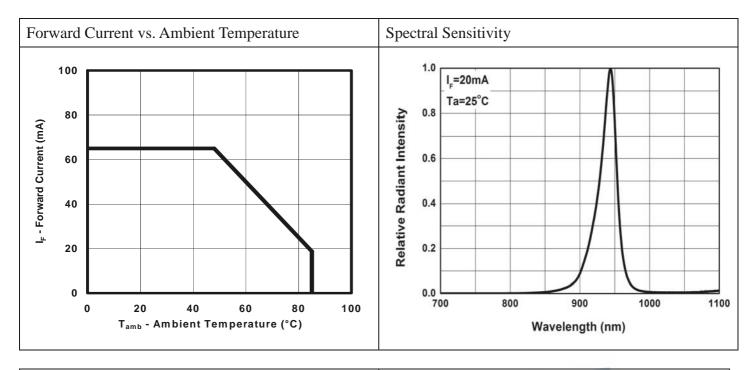
Notes: *1: Soldering time≦5 seconds.

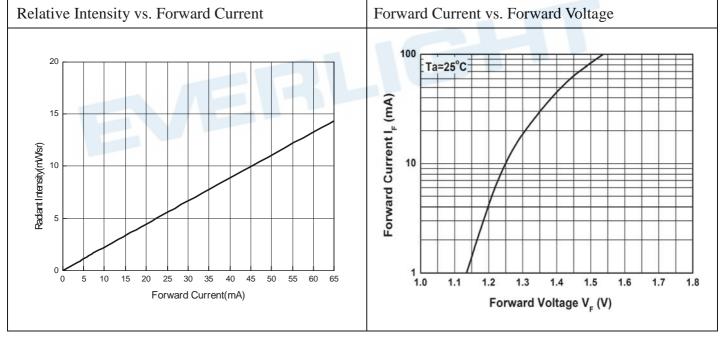
Electro-Optical Characteristics (Ta=25°C unless specified otherwise)

Parameter	Symbol	Min.	Тур.*	Max.	Unit	Condition
Radiant Intensity	Ι _Ε	2.0	4.5	10.5	mW/sr	I _F =20mA
Peak Wavelength	λ _p	920	940	960	nm	I _F =20mA
Spectral Bandwidth	Δλ		30		nm	I _F =20mA
Forward Voltage		1.00	1.20	1.50	V	I _F =20mA
						I _F =100mA
	VF	1.20	1.40	1.80	V	Pulse Width≦100µs
						Duty≦1%
Reverse Current	I _R			10	μA	V _R =5V
View Angle	20 _{1/2}		55		Deg.	I _F =20mA

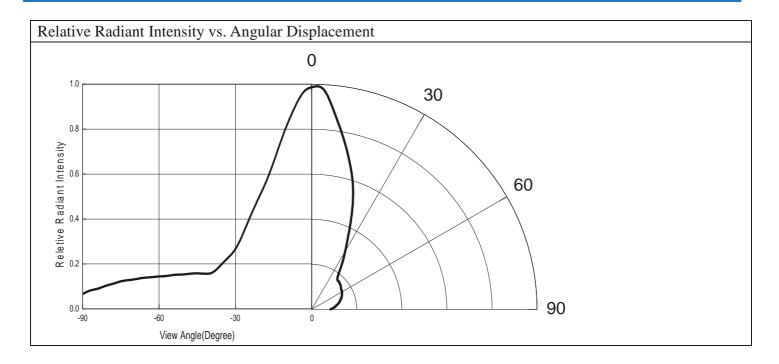


Typical Electrical/Optical/Characteristics Curves





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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 Shelf life in sealed bag from the bag seal date: 12 months at $< 40^{\circ}$ C and < 90% RH.

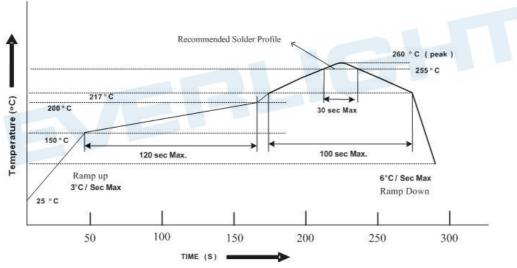
2.3 After opening the package, the LEDs must be kept at $\leq 30^{\circ}$ C and $\leq 70^{\circ}$ RH or less.

2.4 The LEDs should be used within 168 hours (7 days) after opening the package.

2.5 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 Min. 24 hours.

3. Soldering Condition

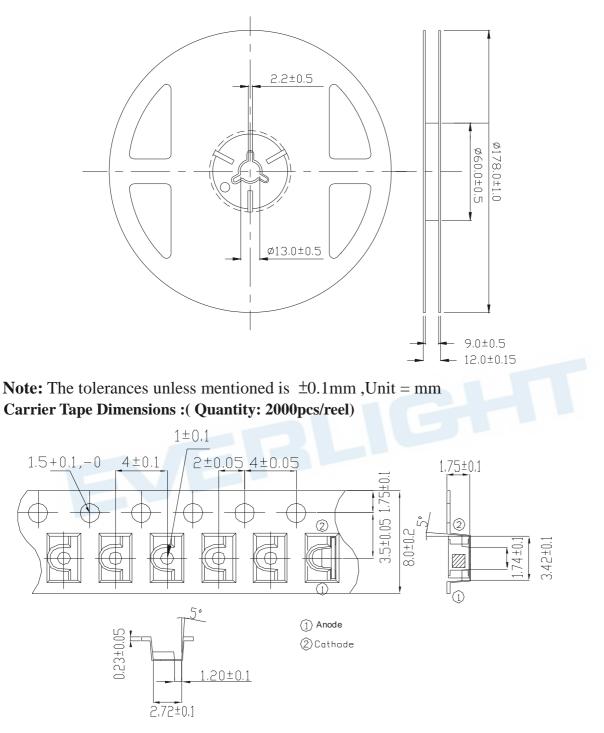
3.1 Pb-free solder temperature profile



- 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.



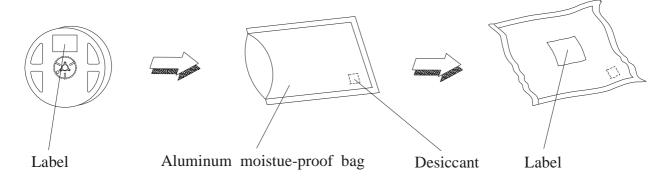
Package Dimensions



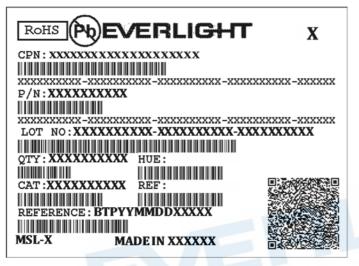
Note: The tolerances unless mentioned is ± 0.1 mm, Unit = mm

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Packing Procedure



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 Production Place: MADE IN XXXXXX

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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