DATASHEET

IR26-61C/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.

Description

• IR26-61C/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

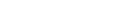
LifecyclePhase:

• Infrared applied system

Approved

Device Selection Guide

Device No.	Chip Material	Lens Color		
IR26-61C/L302/TR8	GaAlAs	Water clear		

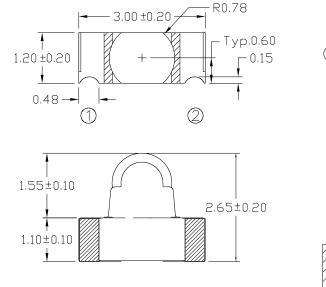


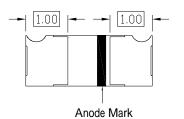
www.everlight.com

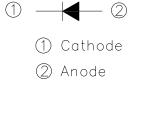


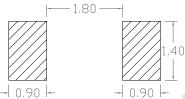
EVERLIGHT

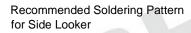
Package Dimensions











Notes: 1.All dimensions are in millimeters 2.Tolerances unless dimensions ±0.1mm

Absolute Maximum Ratings (Ta=25)

Parameter	Symbol	Rating	Unit
Continuous Forward Current	$I_{\rm F}$	65	mA
Reverse Voltage	VR	5	V
Operating Temperature	T _{opr}	-40 ~ +85	
Storage Temperature	T _{stg}	-40 ~ +100	
Soldering Temperature *1	T _{sol}	260	
Power Dissipation at(or below)25Free Air Temperature	P _d	100	mW

Notes: *1: Soldering time 5 seconds.

Electro-Optical Characteristics (Ta=25)

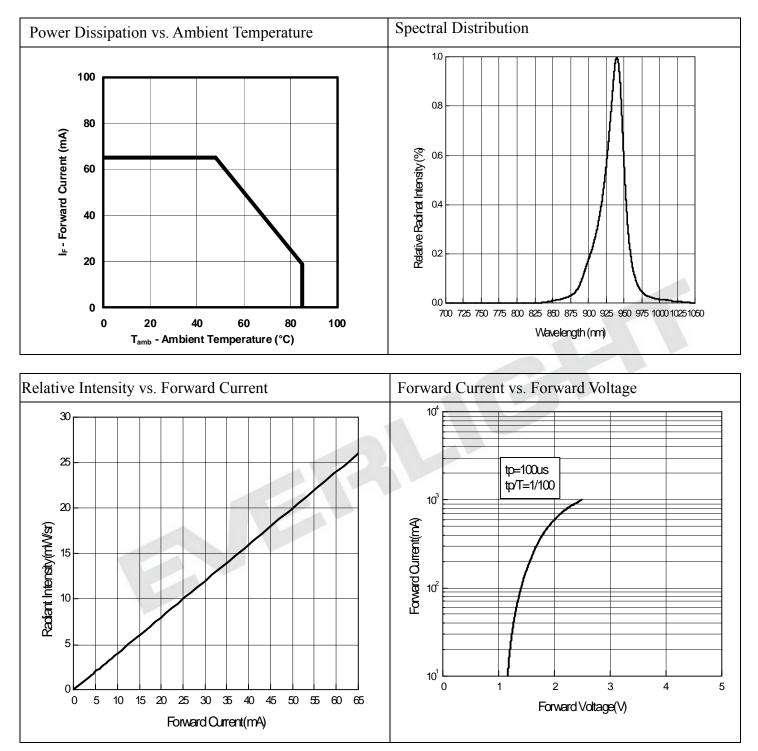
Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition		
Radiant Intensity	Ie	4.0		17.0	XX 7 /	I _F =20mA		
			40		mW /sr	. $I_F{=}100mA$ Pulse Width $~100~\mu$ s ,Duty $~1\%$		
Peak Wavelength	р	920	940	960	nm	I _F =100mA		
Spectral Bandwidth			30		nm	I _F =100mA		
Forward Voltage	\mathbf{V}_{F}	1.15	1.25	1.50	• •	I _F =20mA		
		1.25	1.40	180	V	$I_{F}=100mA$ Pulse Width 100 μ s ,Duty 1%		
Reverse Current	I _R			10	μA	V _R =5V		
View Angle	201/2		20		deg	I _F =20mA		

Ie Rank

View Ang	le	201/2		20		deg		_F =20mA
l e Rank Condition : I _F =2 Unit : mW/sr	20mA							
Bin Number	K	L	Μ		Ν	Р	Q	R
Min	4.0	5.0	6.0	1	7.0	8.0	9.0	10.0
Max	6.0	7.5	9.0		10.5	12.0	15.0	17.0

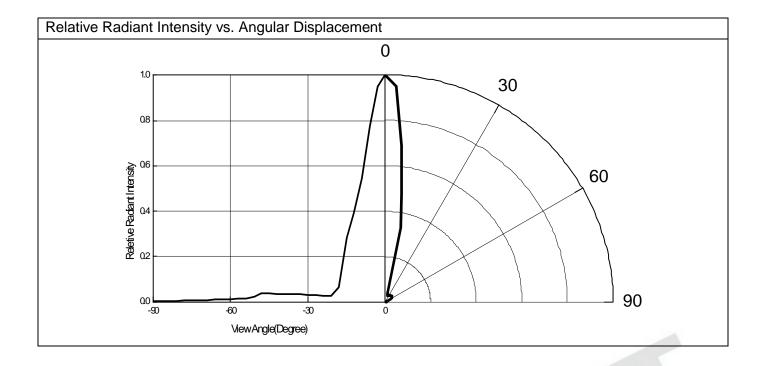
EVERLIGHT

Typical Electrical/Optical/Characteristics Curves for IR



LifecyclePhase: Approved

EVERLIGHT



• 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).

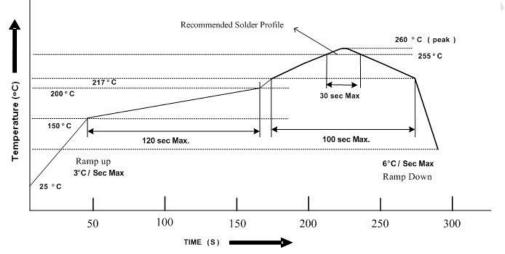
- 2. Storage
 - 2.1 Do not open moisture proof bag before the products are ready to use.
 - 2.2 Before opening the package, the LEDs should be kept at 30 or less and 90%RH or less.
 - 2.3 The LEDs should be used within a year.
 - 2.4 After opening the package, the LEDs should be kept at 30 or less and 70%RH or less.
 - 2.5 The LEDs should be used within 168 hours (7 days) after opening the package

2.6 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±5 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

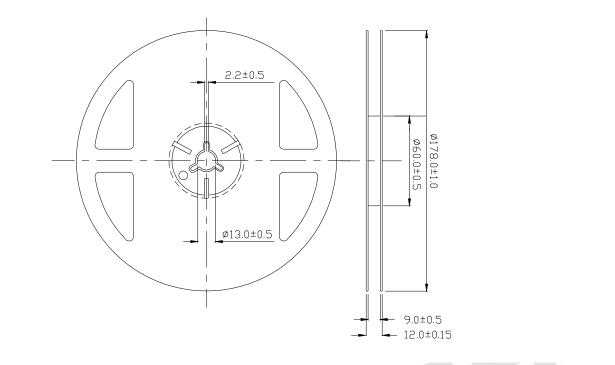
Each terminal is to go to the tip of soldering iron temperature less than 350 for 3 seconds within once in less than the soldering iron capacity 25W. Leave two seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of the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

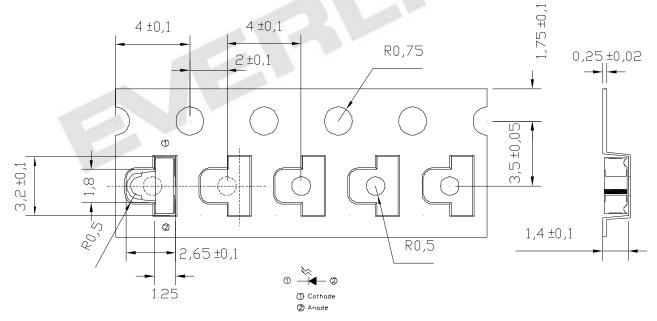


Package Dimensions



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

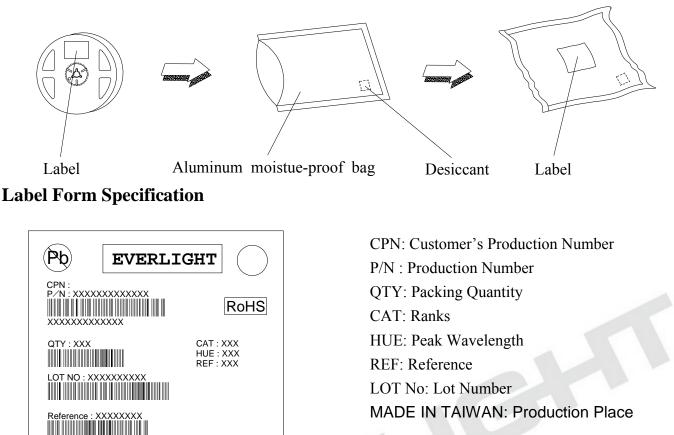
2. Carrier Tape Dimensions:(Quantity: 2000pcs/reel)



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

LifecyclePhase: Approved

Packing Procedure



Notes

- 1. Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
- 2. 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 use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
- These specification sheets include materials protected under copyright of EVERLIGHT corporation. Please don't reproduce or cause anyone to reproduce them without EVERLIGHT's consent.

EVERLIGHT ELECTRONICS CO., LTD. Office: No 6-8, Zhonghua Rd., Shulin Dist., New Taipei City 23860, Taiwan, R.O.C Tel: 886-2-2685-6688 Fax: 886-2-2685-6699 http://www.everlight.com