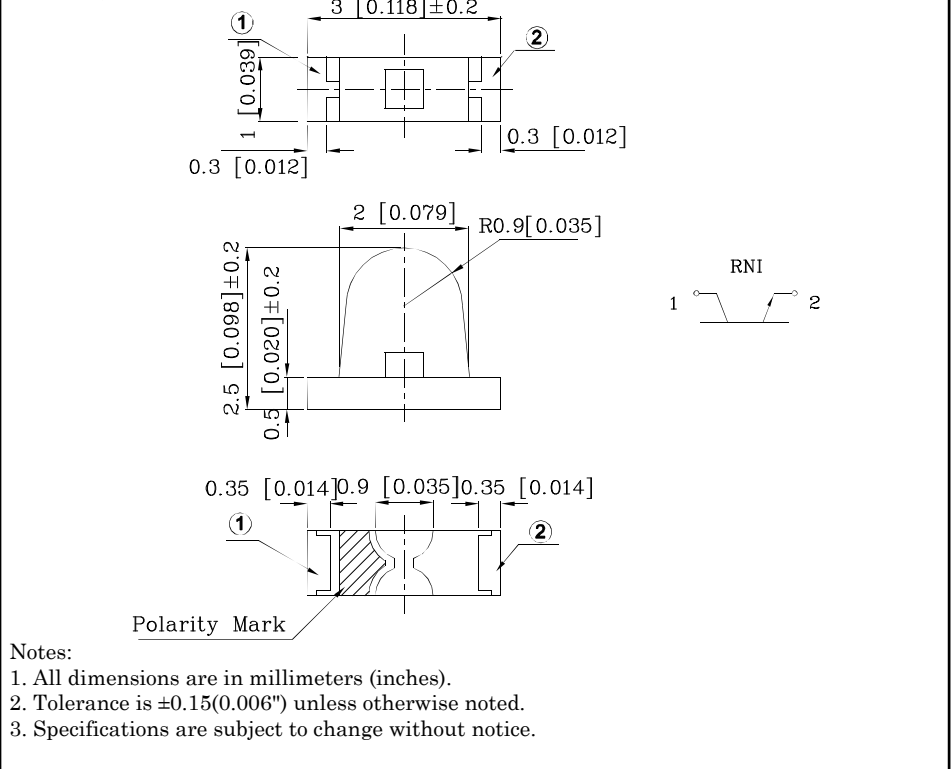


Features

- Long life and robust package
- Standard Package: 2,000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- RoHS compliant



Package Schematics



Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Min.	Typ.	Max.	Unit	Test Condition
VBR CEO	Collector-to-Emitter Breakdown Voltage	30			V	IC=100μA Ee=0mW/cm ²
VBR ECO	Emitter-to-Collector Breakdown Voltage	5			V	IE=100μA Ee=0mW/cm ²
VCE(SAT)	Collector-to-Emitter Saturation Voltage			0.8	V	IC=2mA Ee=20mW/cm ²
ICEO	Collector Dark Current			100	nA	VCE=10V Ee=0mW/cm ²
TR	Rise Time (10% to 90%)		15		μs	VCE=5V IC=1mA RL=1KΩ
TF	Fall Time (90% to 10%)		15		μs	
I(ON)	On State Collector Current	0.2	0.5		mA	VCE=5V Ee=1mW/cm ² λ=940nm

Absolute Maximum Ratings at TA=25°C

Parameter	Maximum Ratings
Collector-to-Emitter Voltage	30V
Emitter-to-Collector Voltage	5V
Power Dissipation at (or below) 25°C Free Air Temperature	100mW
Operating / Storage Temperature Range	-40°C To +85°C

A Relative Humidity between 40% and 60% is recommended in ESD-protected work areas to reduce static build up during assembly process (Reference JEDEC/JESD625-A and JEDEC/J-STD-033)

Typical Electro-Optical Characteristics Curves

Fig.1 Collector Power Dissipation vs. Ambient Temperature

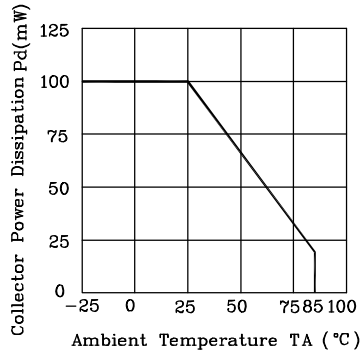


Fig.2 Spectral Sensitivity

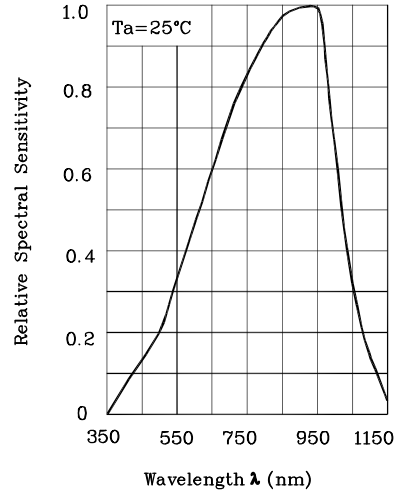


Fig.3 Relative Collector Current vs. Ambient Temperature

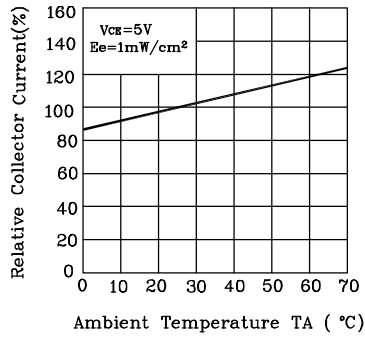


Fig.4 Collector Current
 $I_C = f(E_e), V_{ce} = 5V, T_a = 25^\circ C$

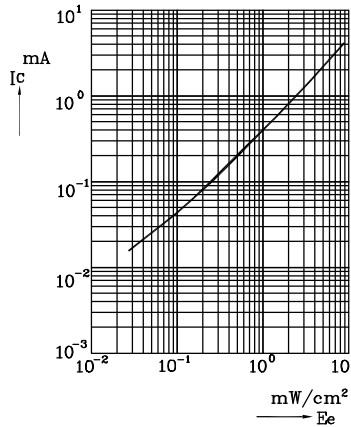


Fig.5 Collector Dark Current vs. Ambient Temperature

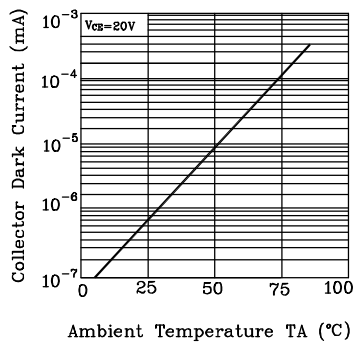


Fig.6 Collector Current vs. Collector-Emitter Voltage

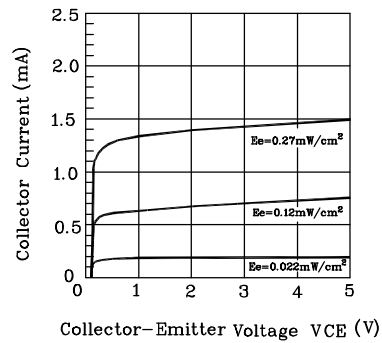
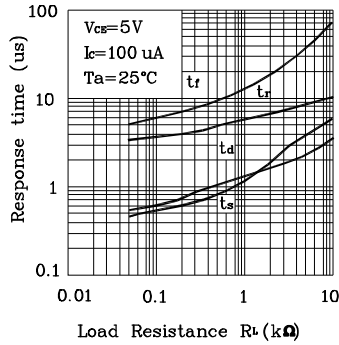
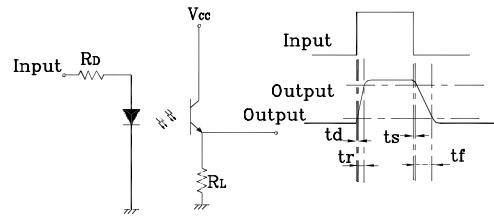


Fig.7 Response Time vs. Load Resistance



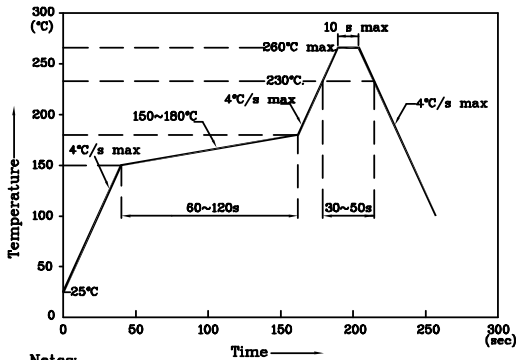
Test Circuit for Response Time



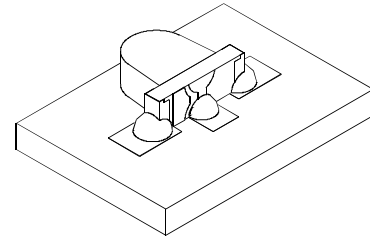
❖ The device has a single mounting surface. The device must be mounted according to the specifications.

❖ LED is recommended for reflow soldering and soldering profile is shown below.

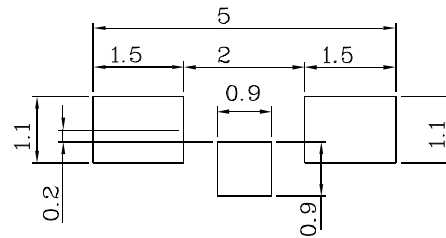
Reflow Soldering Profile for SMD Products (Pb-Free Components)



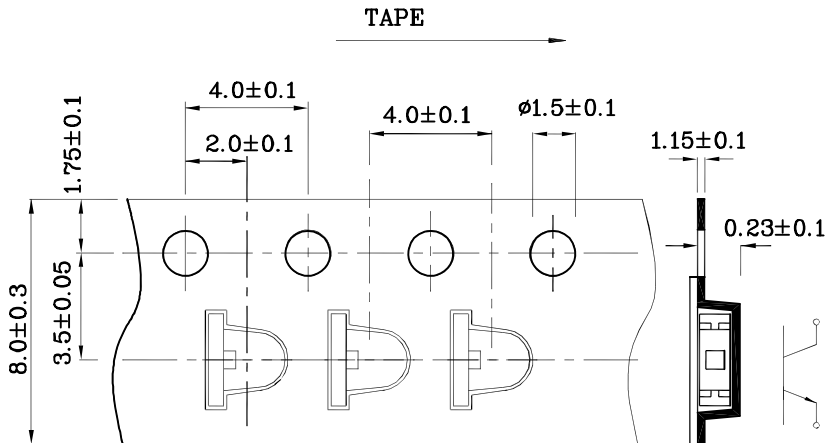
- Notes:
1. Maximum soldering temperature should not exceed 260°C
 2. Recommended reflow temperature: 145°C-260°C
 3. Do not put stress to the epoxy resin during high temperatures conditions



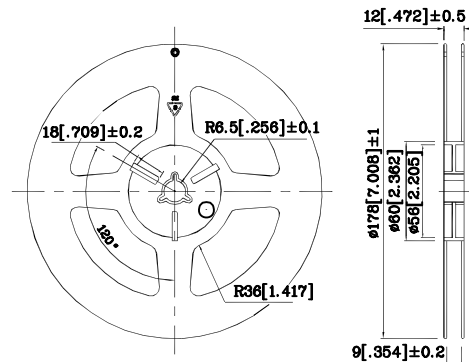
❖ Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



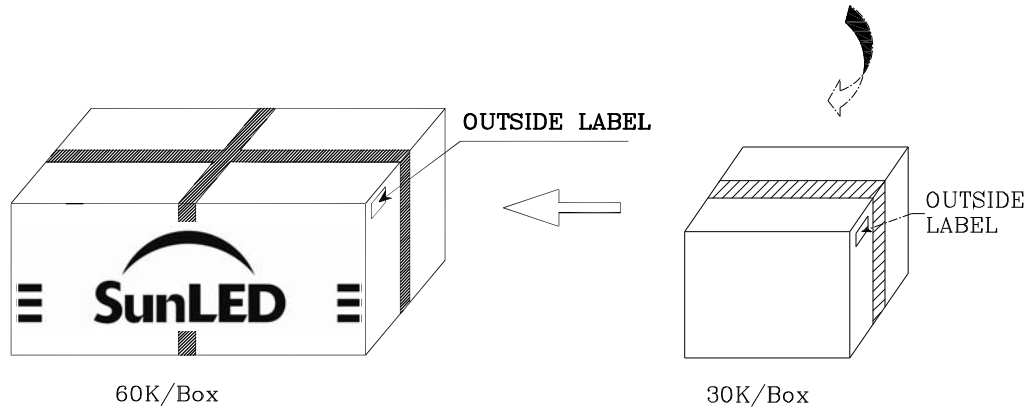
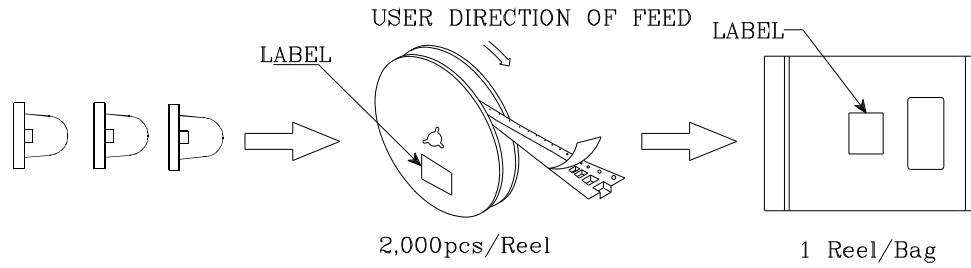
❖ Tape Specification (Units : mm)


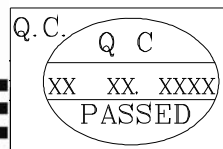



❖ Reel Dimension



PACKING & LABEL SPECIFICATIONS



		
P/N0 : XZxx56x-1		
QTY : 2,000 pcs	CODE: XXX	
S/N : XX		
LOT NO :		
 XXXXXXXXXXXXXXXXXXXXXXXXXXXX		
RoHS Compliant		

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