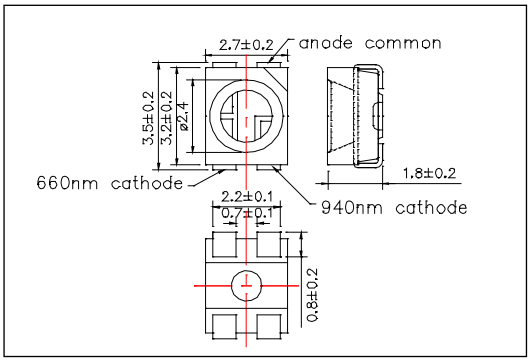
SMT660/940

High Performance Bi-Color TOP LED

SMT660/940 consists of DDH AlGaAs and GaAs LEDs mounted on the lead frame as TOP LED package and is sealed with epoxy resin.
It emits a spectral band of radiation at 660 and 940nm at anode common.

<Specifications>
1. Product Name: Bi-Color TOP LED
2. Type Number: SMT660/940
3. Chip:
   - Chip Material: AlGaAs
   - Peak Wavelength: 660,940nm
4. Package
   - Lead Frame Die: Silver Plated
   - Package Resin: PPA Resin
   - Lens: Epoxy Resin

Outer Dimension (Unit:mm)



Absolute Maximum Ratings [Ta=25℃]				
Item	Symbol	Maximum Rated Value		Unit
		660nm	940nm	
Power Dissipation	PD	75	80	mW
Forward Current	IF	30	50	mA
Reverse Voltage	VR	5		V
Operating Temperature	TOPR	-20 ~ +80		℃
Storage Temperature	TSTG	-30 ~ +80		℃
Soldering Temperature*	TSOL	250		℃

* Soldering condition must be completed within 5 second at 250℃.

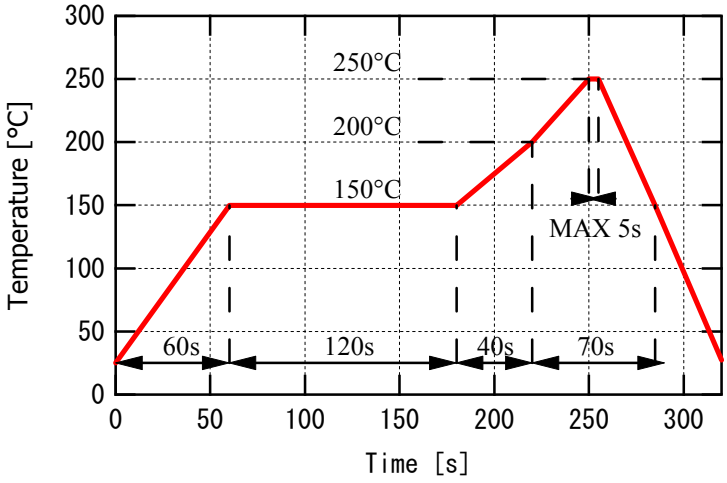
Electro-Optical Characteristics [Ta=25℃]									
Item	Symbol	Condition	Minimum		Typical		Maximum		Unit
			660	940	660	940	660	940	
Forward Voltage	VF	IF=20mA			1.9	1.2	2.2	1.4	V
Reverse Current	IR	VR=5V					10		uA
Total Radiated Power*	PO	IF=20mA	1.5	2.0	2.5	3.0			mW
Peak wavelength	λP	IF=20mA			660	940			nm
Half Width	Δλ	IF=20mA			20	50			nm
Viewing Half Angle	θ1/2	IF=20mA			±55				deg

* Measured by Photodyne #500
- Brightness is measured by Tektronix J-16

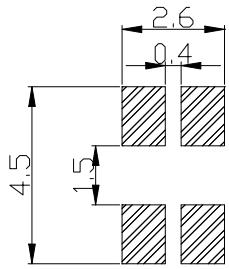
RoHS Compliant

SMD Application

IR-Reflow Soldering Profile for lead free soldering



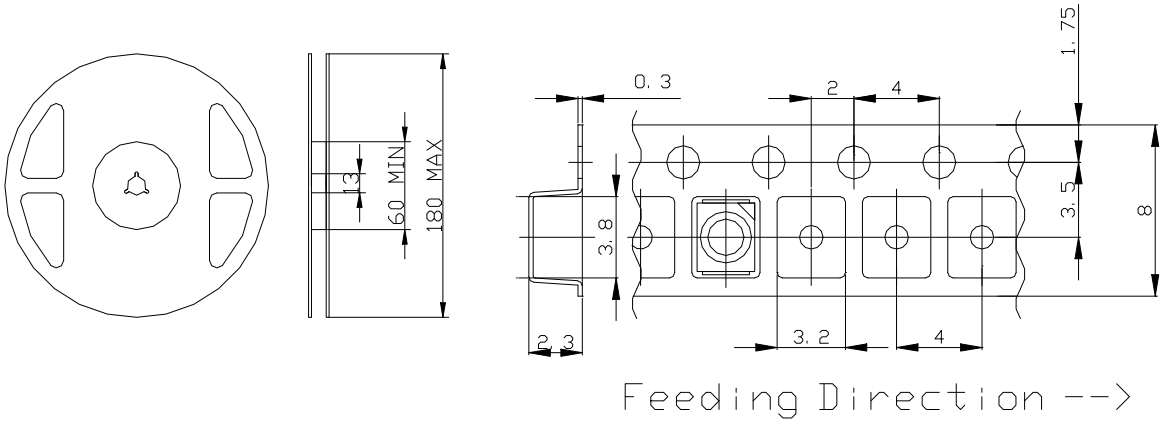
Recommended Land Layout (Unit: mm)



Don't put stress on SMD and a circuit board after soldering.

SMD Packing

Tape and Reel Dimensions (Unit: mm)



Wrapping

Moisture barrier bag aluminum laminated film with a desiccant to keep out the moisture absorption during the transportation and storage.