

Lead (Pb) Free Product – RoHS Compliant

SMT660/940

High Performance Bi-color TOP LED

Bi-color LED of 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 660nm and 940nm at anode common.

◆ Specifications

1) Product Name Bi-color TOP LED 2) Type No. SMT660/940

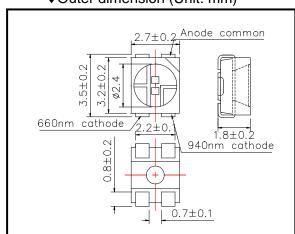
3) Chip

(1) Chip Material AlGaAs/GaAs(2) Peak Wavelength 660nm/940nm

4) Package

(1) Lead Frame Die Silver Plated(2) Package Resin PPA Resin(3) Lens Epoxy Resin

♦ Outer dimension (Unit: mm)



♦ Absolute Maximum Ratings

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Item	Symbol	Maximum Rated Val 660nm 940nn		Unit	Ambient Temperature							
Power Dissipation	Po	75	80	mW	Ta=25°C							
Forward Current	lF	30	50	mΑ	Ta=25°C							
Reverse Voltage	VR	5		V	Ta=25°C							
Operating Temperature	Topr	-20 ~	- +80	°C								
Storage Temperature	Тѕтс	-30	~ +80	°C								
Soldering Temperature	TsoL	2	55	°C								

‡Soldering condition: Soldering condition must be completed within 10 seconds at 255°C

◆ Electro-Optical Characteristics [Ta=25°C]

Item	Symbol	Condition	Minimum		Typical		Maximum		Unit
			660nm	940nm	660nm	940nm	660nm	940nm	
Forward Voltage	VF	IF=20mA			1.90	1.20	2.20	1.40	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	λР	IF=20mA	650	930	660	940	670	960	nm
Half Width	Δλ	IF=20mA			20	50			nm
Viewing Half Angle	θ 1/2	IF=20mA			±	55			deg.

‡Total Radiated Power is measured by Photodyne #500

‡Brightness is measured by Tektronix J-16.

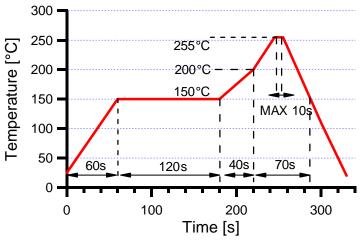
EPITEX INC.: 66-3 Minami-Kawabe Cho, Higashi-Kujyo, Minami-Ku, Kyoto, Japan

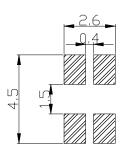
Tel: ++81-75-682-2338 Fax: ++81-75-682-2267 e-mail: sales-dep@epitex.com http://www.epitex.com



♦ SMD Application IR-Reflow Soldering Profile for lead free soldering

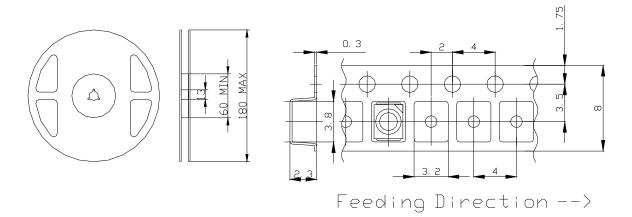
Recommended Land Layout (Unit: mm)





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.

e-mail: sales-dep@epitex.com http://www.epitex.com