

SML10R3-TR

Hi-Eff Red

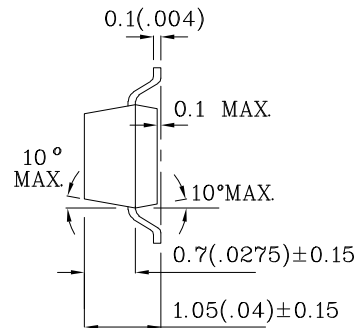
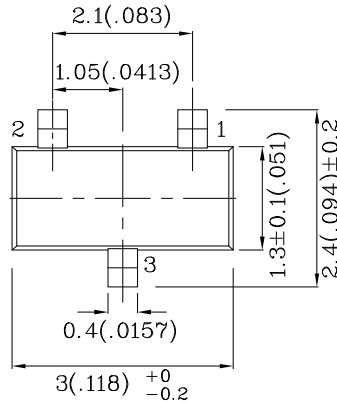
LED, SMD Surface Mount
3.0 × 1.3 × 1.05mm Chip LED
140° viewing angle

DWG BY:
OCC / GP
04-24-13

CHK BY:
PL
04-30-13

REVISION LTR: -
04-24-13

- 1 N.C.
- 2 ANODE
- 3 CATHODE



Absolute Maximum Ratings (T _A =25°C)		Rating	Unit
Reverse Voltage	V _R	5	V
Forward Current	I _F	30	mA
Forward Current (Peak) 1/10Duty Cycle 0.1ms Pulse Width	i _{FS}	160	mA
Power Dissipation	P _T	75	mW
Operating Temperature	T _A	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +85	

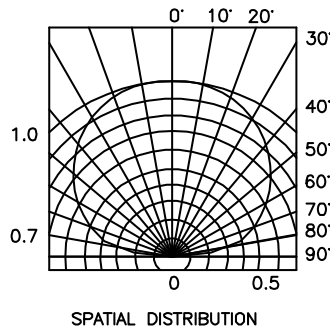
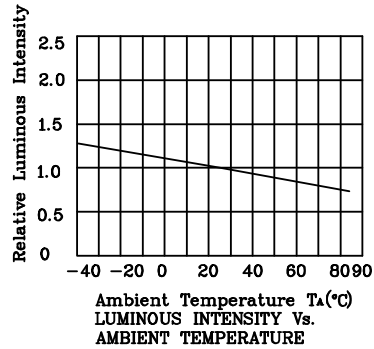
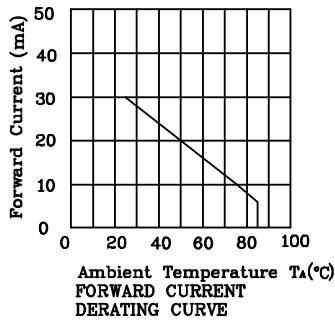
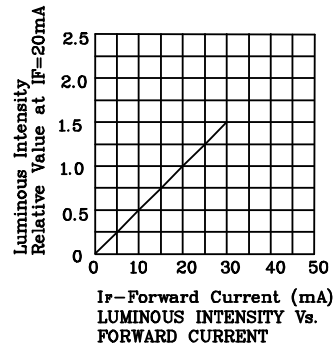
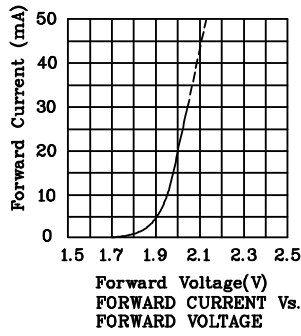
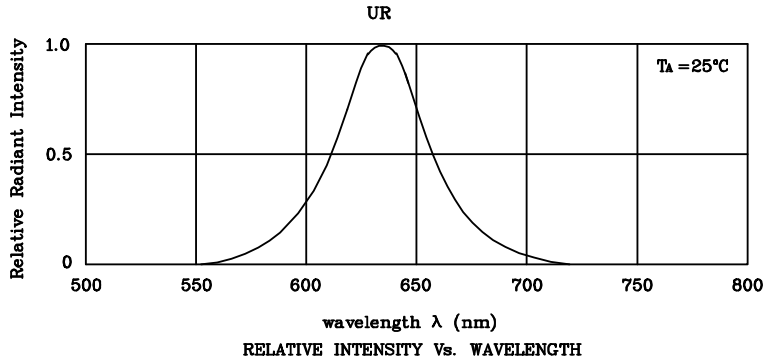
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Specifications are subject to change without notice.

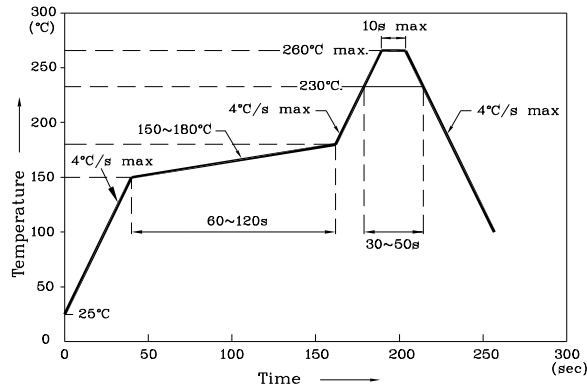
Features

- EMITTED COLOR: HI-EFF RED
- LENS COLOR: WATER CLEAR
- CHIP MATERIAL: GaAsP/GaP
- SOT-23 PACKAGE SURFACE MOUNT LED LAMP.
- LOW POWER CONSUMPTION.
- LONG LIFE-SOLID STATE RELIABILITY.
- PACKAGE : 2000PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 3.
- RoHS COMPLIANT.

Operating Characteristics (T _A =25°C)		(Gap)	Unit
Luminous Intensity (I _F =20mA)	I _v	5	mcd
Forward Voltage (Typ.) (I _F =20mA)	V _F	1.9	V
Forward Voltage (Max.) (I _F =20mA)	V _F	2.5	V
Reverse Current (Max.) (V _R =5V)	I _R	10	uA
Wavelength of Peak Emission (Typ.) (I _F =20mA)	λ _P	630	nm
Wavelength of Dominant Emission (Typ.) (I _F =20mA)	λ _D	618	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	43	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	15	pF
Chromaticity Coordinates (I _F =20mA)	x	0.69	
Chromaticity Coordinates (I _F =20mA)	y	0.31	



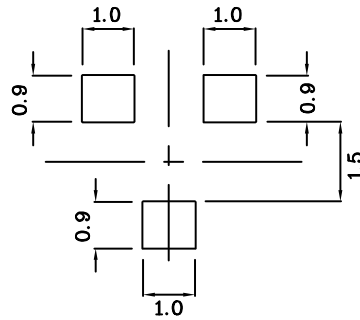
Reflow Soldering Profile For Lead-free SMT Process.



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)

