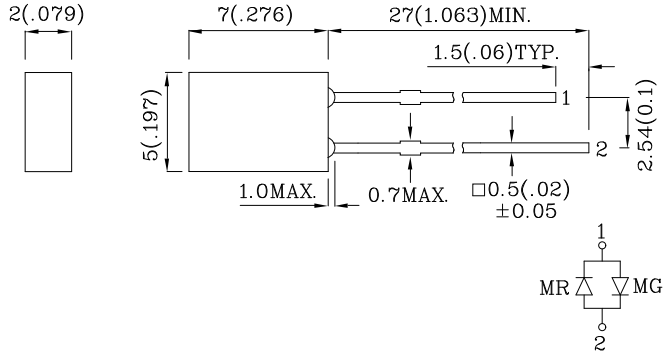


Features

- LOW POWER CONSUMPTION.
- RELIABLE AND RUGGED.
- EXCELLENT UNIFORMITY OF LIGHT OUTPUT.
- SUITABLE FOR LEVEL INDICATOR.
- LONG LIFE - SOLID STATE RELIABILITY.
- RoHS COMPLIANT.



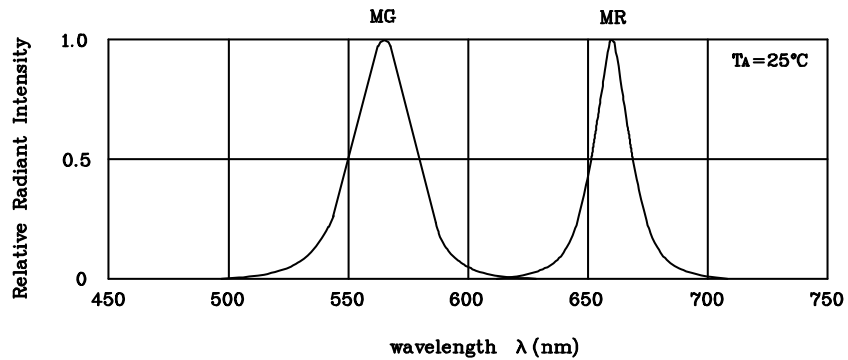
Notes:

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

Absolute Maximum Ratings (TA=25°C)		MR (GaAlAs)	MG (GaP)	Unit
Forward Current	IF	30	25	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	IFs	155	140	mA
Power Dissipation	PT	75	62.5	mW
Operating Temperature	TA	-40 ~ +85		°C
Storage Temperature	Tstg	-40 ~ +85		
Lead Solder Temperature [2mm Below Package Base]	260°C For 3 Seconds			
Lead Solder Temperature [5mm Below Package Base]	260°C For 5 Seconds			

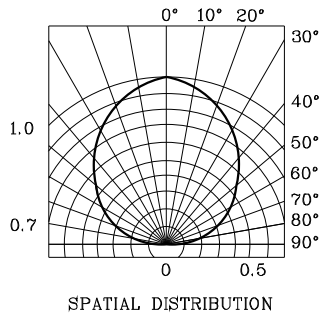
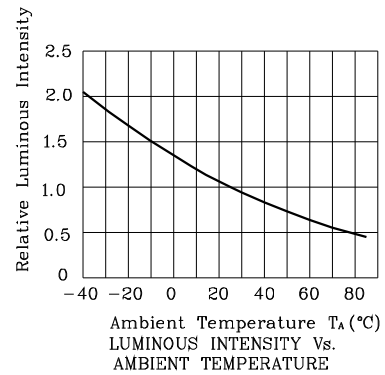
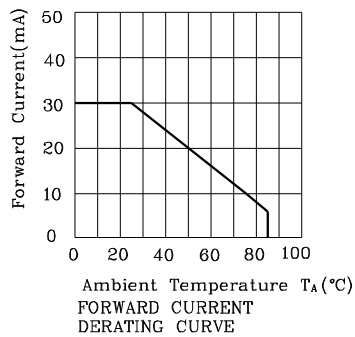
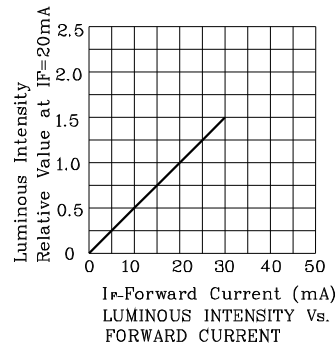
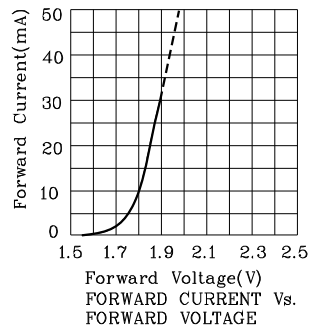
Operating Characteristics (TA=25°C)		MR (GaAlAs)	MG (GaP)	Unit
Forward Voltage (Typ.) (IF=20mA)	VF	1.85	2.2	V
Forward Voltage (Max.) (IF=20mA)	VF	2.5	2.5	V
Wavelength Of Peak Emission (Typ.) (IF=20mA)	λP	660	565	nm
Wavelength Of Domi- nant Emission (Typ.) (IF=20mA)	λD	640	568	nm
Spectral Line Full Width At Half-Maximum (Typ.) (IF=20mA)	$\Delta\lambda$	20	30	nm
Capacitance (Typ.) (VF=0V, f=1MHz)	C	45	15	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=20mA) mcd		Wavelength nm λP	Viewing Angle 2 θ 1/2
				min.	typ.		
XSMRMG18M	Red	GaAlAs	White Diffused	36	69	660	110°
	Green	GaP		7	9	565	

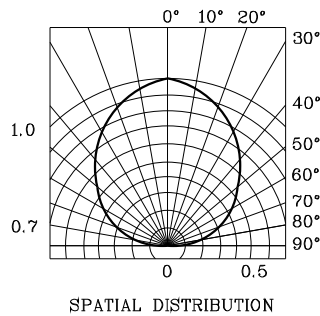
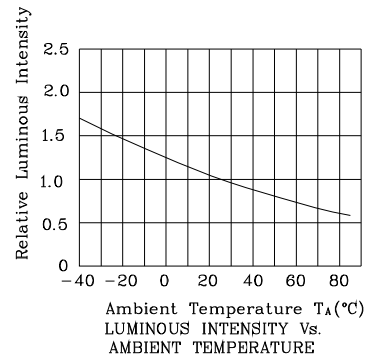
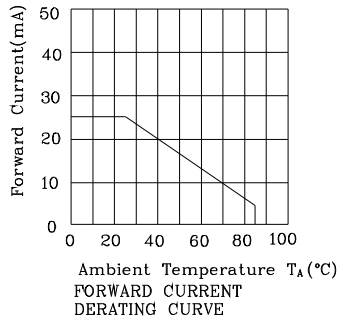
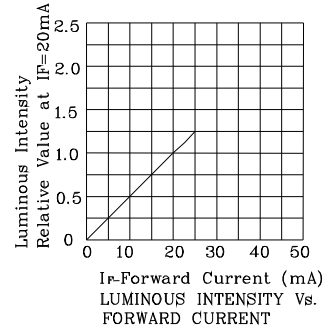
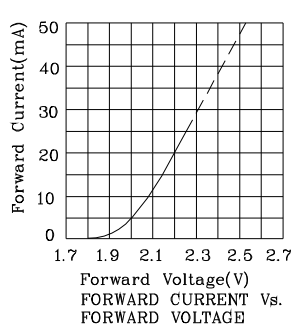


RELATIVE INTENSITY Vs. WAVELENGTH

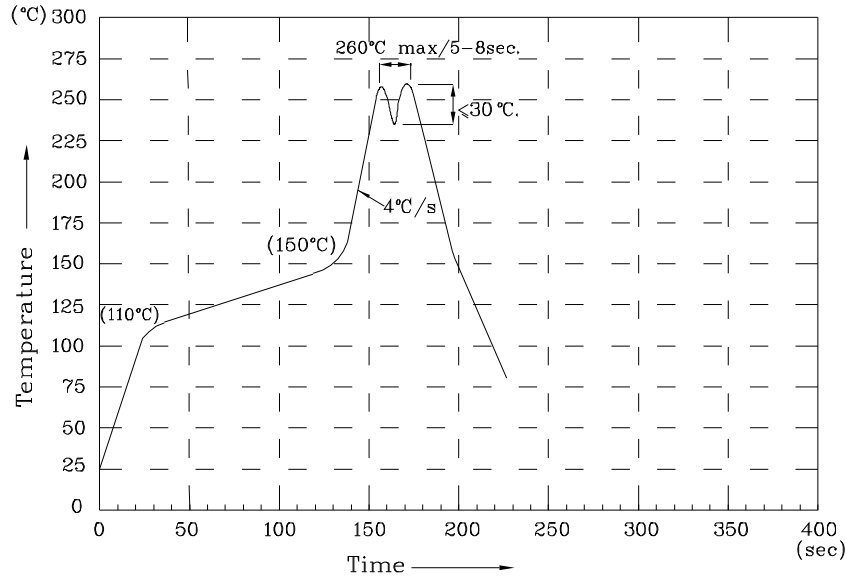
❖ MR



❖ MG



Wave Soldering Profile For Lead-free Through-hole LED.



NOTES:

- 1.Recommend the wave temperature 245°C~260°C.The maximum soldering temperature should be less than 260°C.
- 2.Do not apply stress on epoxy resins when temperature is over 85 degree°C.
- 3.The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
- 4.No more than once.

Remarks:

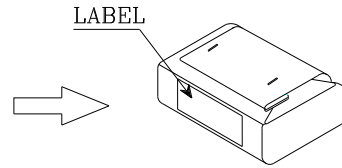
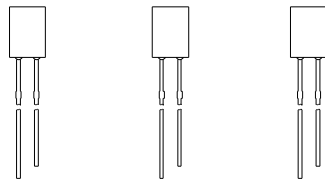
If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous Intensity / Luminous Flux: +/-15%
3. Forward Voltage: +/-0.1V

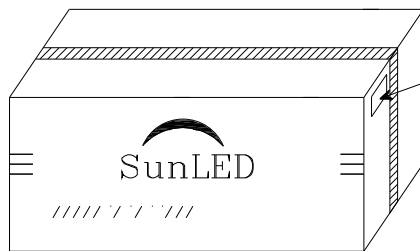
Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

XSMRMG18M



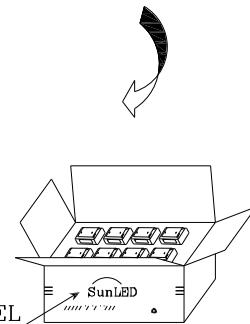
500 PCS/ Bag



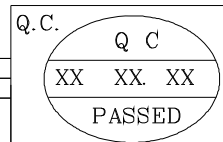
20K / BOX


OUTSIDE LABEL

OUTSIDE LABEL



10K / BOX



P/NO : XSxx18x	FQC
QTY : 500 pcs	CODE: XXX
S/N : XX	
LOT NO:	
 XXXXXXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	