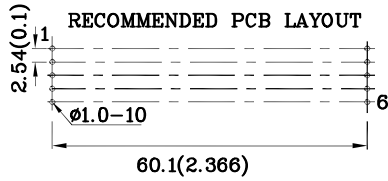
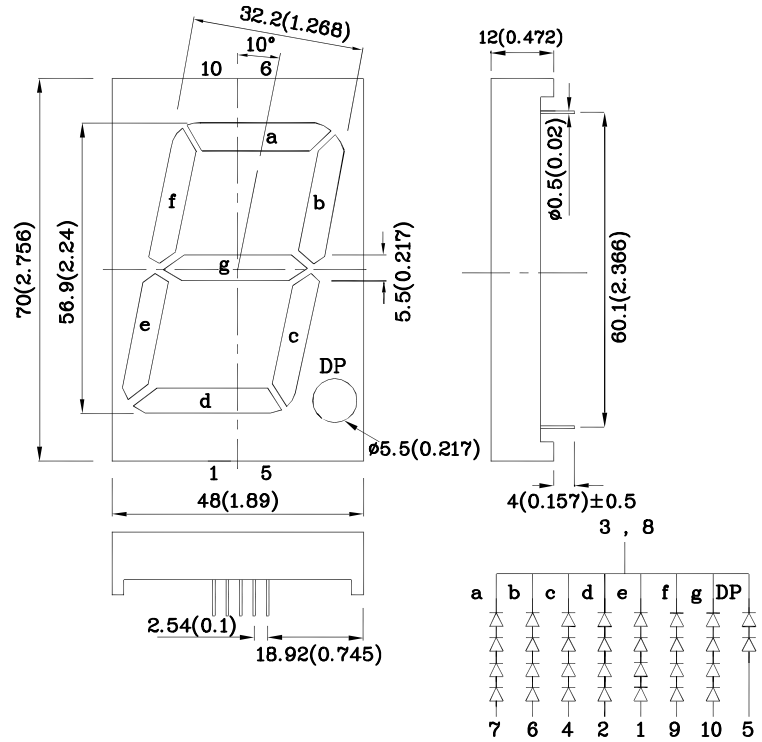


Features

- Low power consumption
- Robust package
- I.C. Compatible
- Standard configuration: Gray face w/ white segments
- Optional black face provides superior color contrast
- RoHS Compliant



Package Schematics



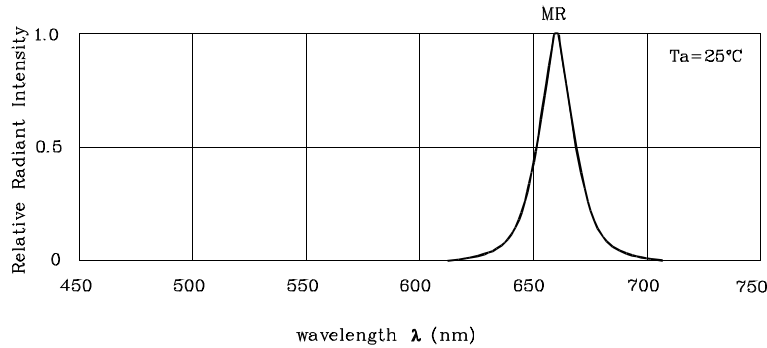
Notes:

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

Absolute Maximum Ratings (T _A =25°C)		MR (GaAlAs)	Unit
Reverse Voltage Per Segment Or (DP)	V _R	5	V
Forward Current Per Segment Or (DP)	I _F	30	mA
Forward Current (peak) Per Segment Or (DP) 1/10Duty Cycle 0.1ms Pulse Width	i _{FS}	155	mA
Power Dissipation Per Segment Or (DP)	P _D	300 (150)	mW
Operating Temperature	T _A	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +85	
Lead Solder Temperature [2mm Below Package Base]	260°C For 3-5 Seconds		

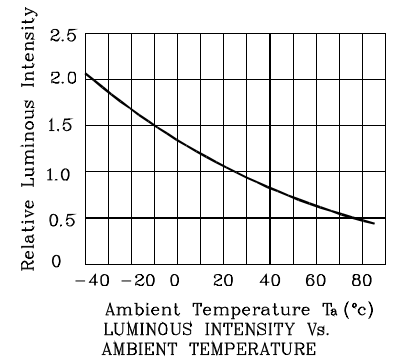
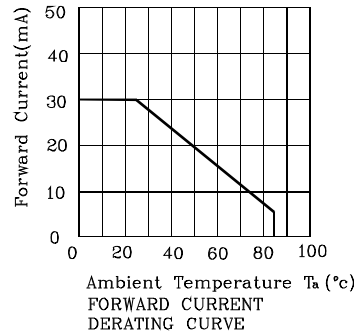
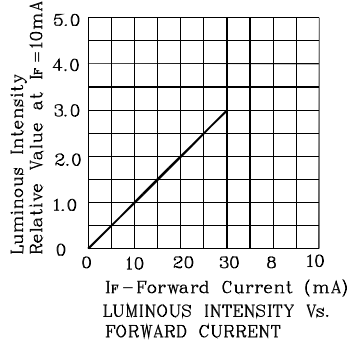
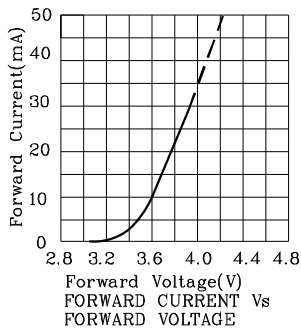
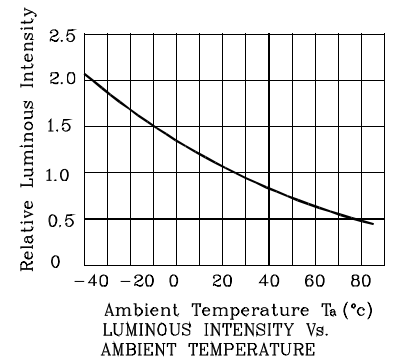
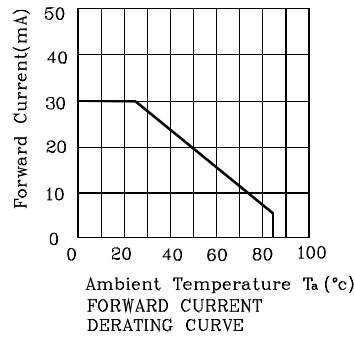
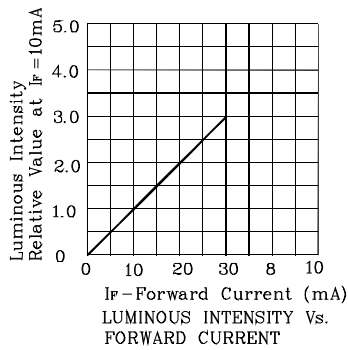
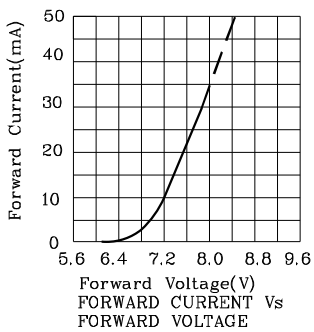
Operating Characteristics (T _A =25°C)		MR (GaAlAs)	Unit
Forward Voltage (Typ.) Per Segment Or (DP) (I _F =10mA)	V _F	7.2 (3.6)	V
Forward Voltage (Max.) Per Segment Or (DP) (I _F =10mA)	V _F	10 (5.0)	V
Reverse Current Per Segment Or (Dp) (V _R =5V)	I _R	10	µA
Wavelength of Peak Emission (Typ.) (I _F =10mA)	λ _P	660	nm
Wavelength of Dominant Emission (Typ.) (I _F =10mA)	λ _D	640	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA)	Δλ	20	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	45	pF

Part Number	Emitting Color	Emitting Material	Luminous Intensity (I _F =10mA) ucd		Wavelength nm λ _P	Description
			min.	typ.		
XDMR57C	Red	GaAlAs	88000	189990	660	Common Cathode, Rt.Hand Decimal

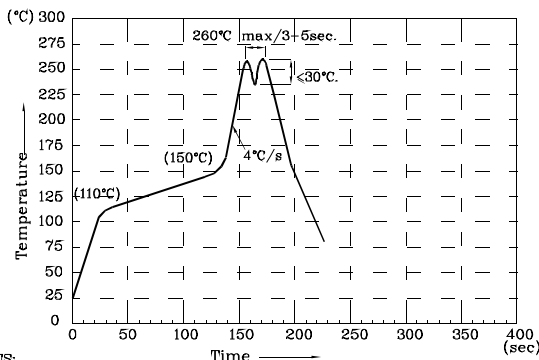


RELATIVE INTENSITY Vs. WAVELENGTH

❖ MR



Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



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°C.
3. The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
4. During wave soldering, the PCB top-surface temperature should be kept below 105°C.
5. No more than once.

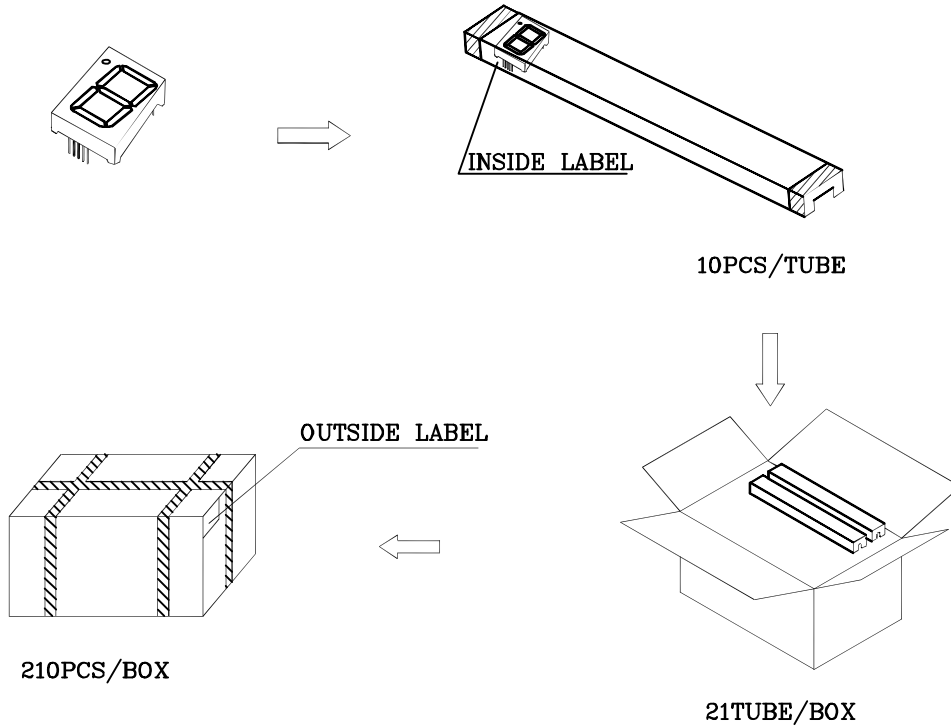
Remarks:

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:

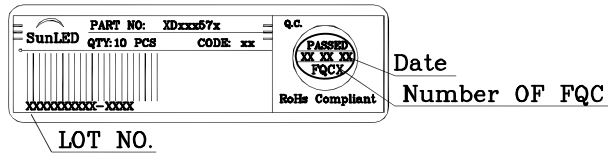
1. Wavelength: +/-1nm
2. Luminous Intensity / Luminous Flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS



Inside Label On IC-tube



Outside Label On Box

