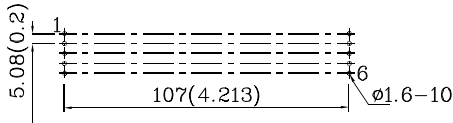


Features

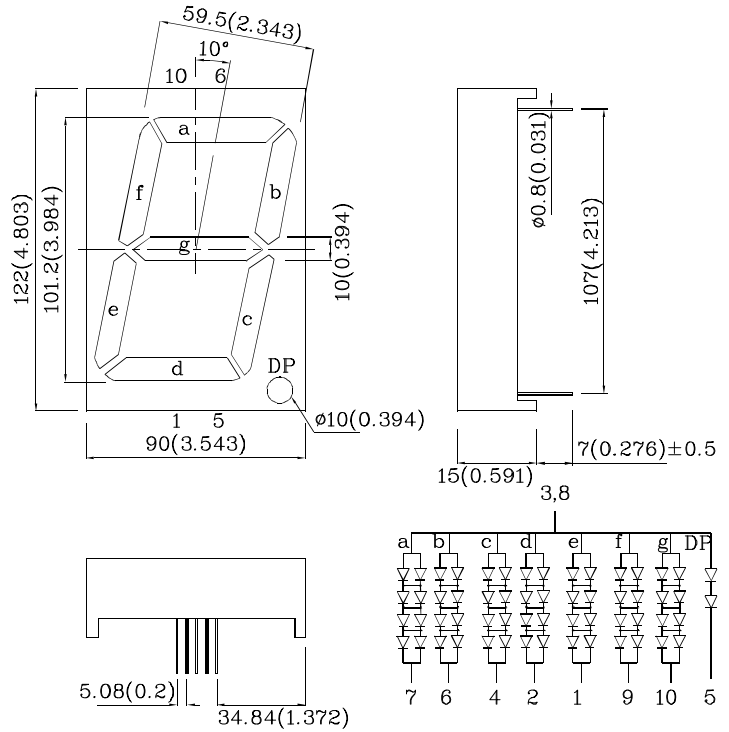
- Low power consumption
- Robust package
- I.C. Compatible
- Standard configuration: Gray face w/ white segments
- Optional black face provides superior color contrast
- RoHS Compliant



RECOMMENDED PCB LAYOUT



Package Schematics



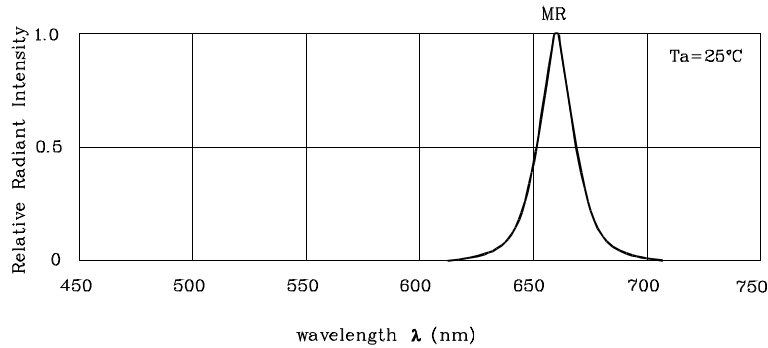
Notes:

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

Absolute Maximum Ratings ($T_A=25^\circ\text{C}$)		MR (GaAlAs)	Unit
Reverse Voltage Per Segment or (Dp)	V_R	5 (5)	V
Forward Current Per Segment or (Dp)	I_F	60 (30)	mA
Forward Current (Peak) Per Segment or (Dp) 1/10 Duty Cycle 0.1ms Pulse Width	i_{FS}	310 (155)	mA
Power Dissipation Per Segment or (Dp)	P_D	600 (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		

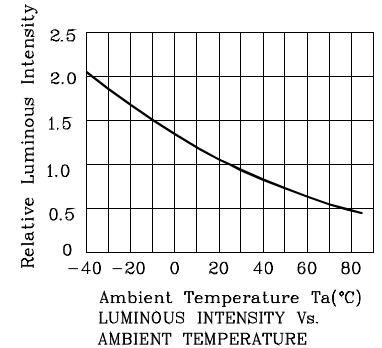
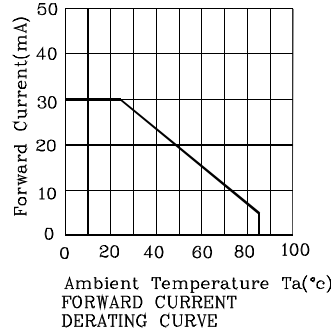
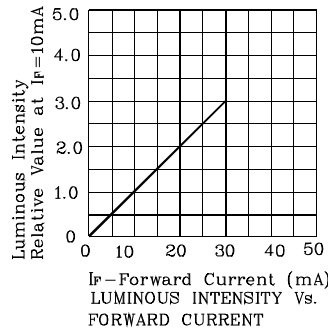
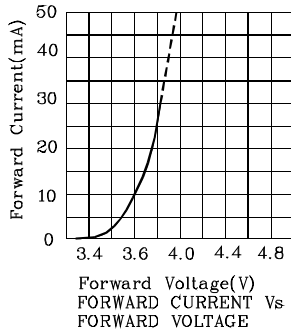
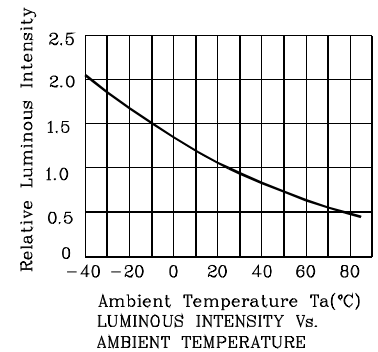
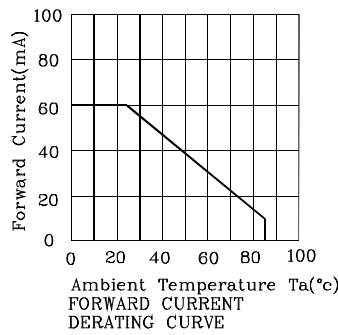
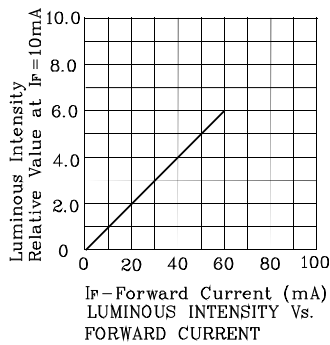
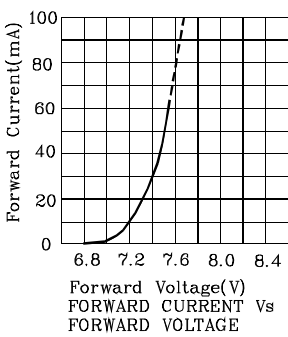
Operating Characteristics ($T_A=25^\circ\text{C}$)		MR (GaAlAs)	Unit
Forward Voltage (Typ.) Per Segment or (Dp) ($I_F=10\text{mA}$)	V_F	7.2 (3.6)	V
Forward Voltage (Max.) Per Segment or (Dp) ($I_F=10\text{mA}$)	V_F	10 (5.0)	V
Reverse Current (Max.) Per Segment or (Dp) ($V_R=5\text{V}$)	I_R	20 (10)	μA
Wavelength of Peak Emission (Typ.) ($I_F=10\text{mA}$)	λ_P	660	nm
Wavelength of Dominant Emission (Typ.) ($I_F=10\text{mA}$)	λ_D	640	nm
Spectral Line Full Width At Half-Maximum (Typ.) ($I_F=10\text{mA}$)	$\Delta\lambda$	20	nm
Capacitance (Typ.) ($V_F=0\text{V}$, $f=1\text{MHz}$)	C	45	pF

Part Number	Emitting Color	Emitting Material	Luminous Intensity ($I_F=10\text{mA}$) ucd		Wavelength nm λ_P	Description
			min.	typ.		
XDMR100A	Red	GaAlAs	52000	109990	660	Common Anode, Rt.Hand Decimal.

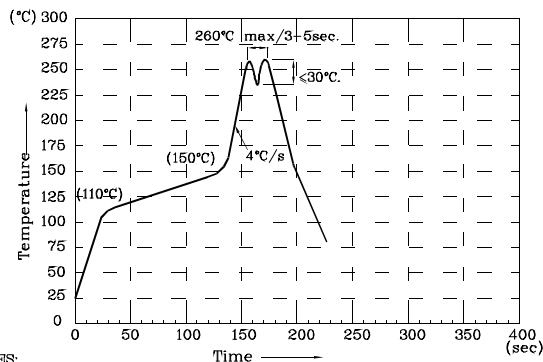


RELATIVE INTENSITY Vs. WAVELENGTH

❖ 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.

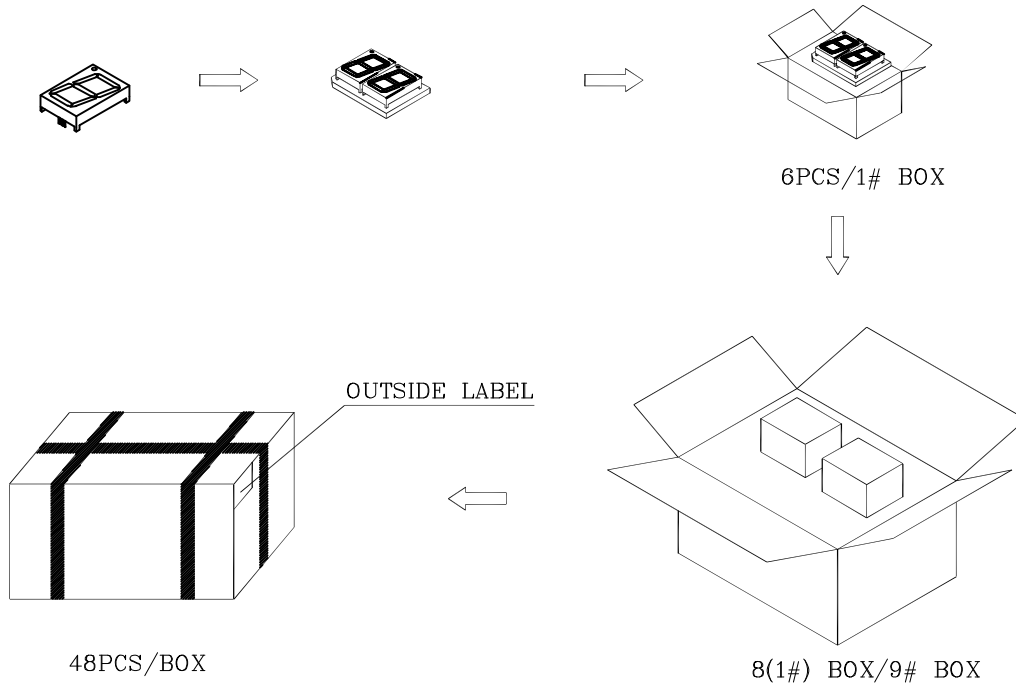
Remarks:

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:

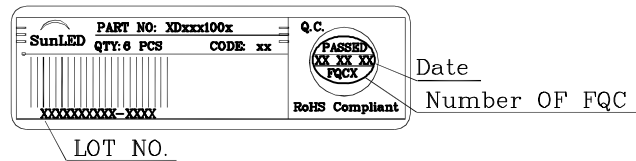
1. Wavelength: +/-1nm
2. Luminous Intensity / Luminous Flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS



Inside Label On 1#BOX



Outside Label On Box

