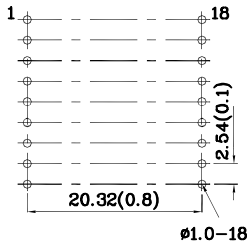


**Features**

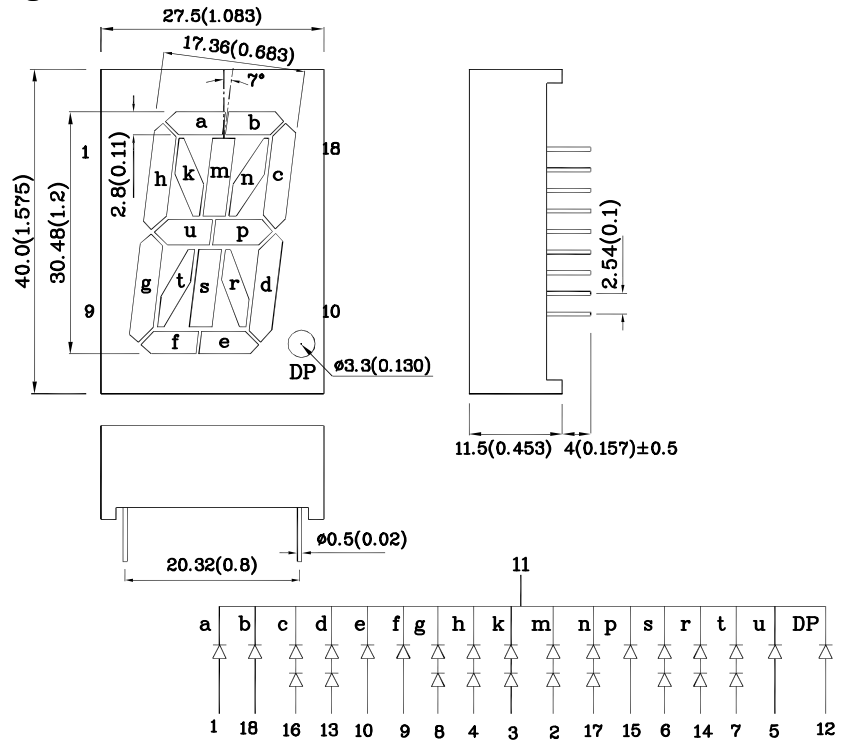
- Low power consumption
- Robust package
- I.C. Compatible
- Standard configuration: Gray face w/ white segments
- Optional black face provides superior color contrast
- RoHS Compliant



**RECOMMENDED PCB LAYOUT**



**Package Schematics**



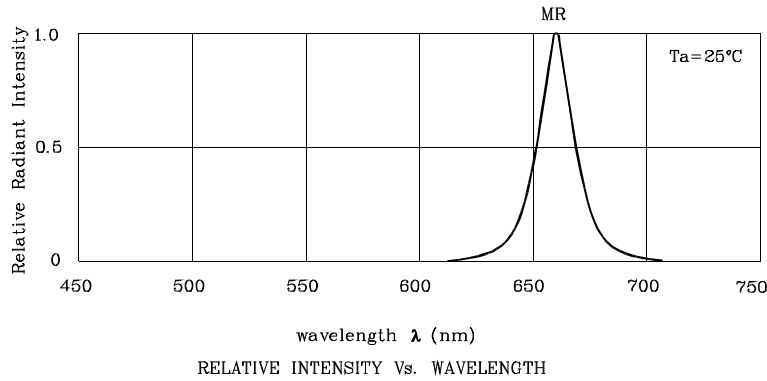
**Notes:**

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.

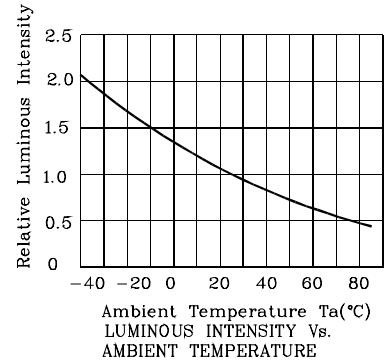
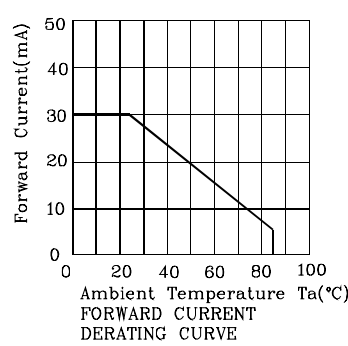
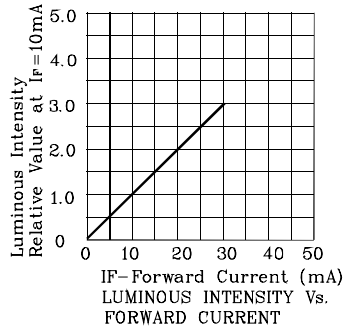
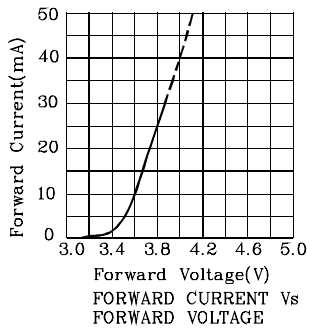
Absolute Maximum Ratings (TA=25°C)		MR (GaAlAs)	Unit	
Reverse Voltage	c,d,g,h,k,m,n, s,r,t	VR	5	V
	a,b,e,f,p,u and DP		5	
DC Forward Current	c,d,g,h,k,m,n, s,r,t	IF	30	mA
	a,b,e,f,p,u and DP			
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	c,d,g,h,k,m,n, s,r,t	iFS	155	mA
	a,b,e,f,p,u and DP			
Power Dissipation	c,d,g,h,k,m,n, s,r,t	PD	150	mW
	a,b,e,f,p,u and DP		75	
Operating Temperature	TA	-40 ~ +85	°C	
Storage Temperature	Tstg	-40 ~ +85		
Lead Solder Temperature [2mm Below Package Base]	260°C For 3~5 Seconds			

Operating Characteristics (TA=25°C)		MR (GaAlAs)	Unit	
Forward Voltage (Typ.) (IF=10mA)	c,d,g,h,k,m,n, s,r,t	VF	3.6	V
	a,b,e,f,p,u and DP		1.8	
Forward Voltage (Max.) (IF=10mA)	c,d,g,h,k,m,n, s,r,t	VF	5	V
	a,b,e,f,p,u and DP		2.5	
Reverse Current (Max.) (VR=5V)	c,d,g,h,k,m,n, s,r,t	IR	10	uA
	a,b,e,f,p,u and DP			
Wavelength of Peak Emission (Typ.) (IF=10mA)	λ P	660	nm	
Wavelength of Dominant Emission (Typ.) (IF=10mA)	λ D	640	nm	
Spectral Line Full Width At Half- Maximum (Typ.)(IF=10mA)	Δλ	20	nm	
Capacitance (Typ.) (VF=0V, f=1MHz)	C	45	pF	

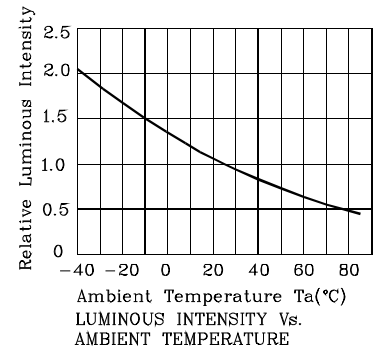
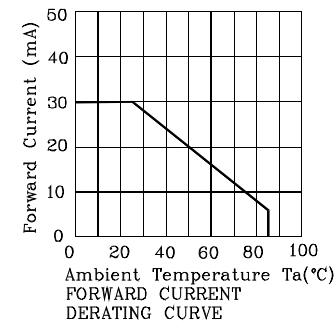
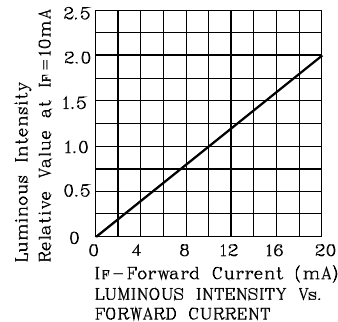
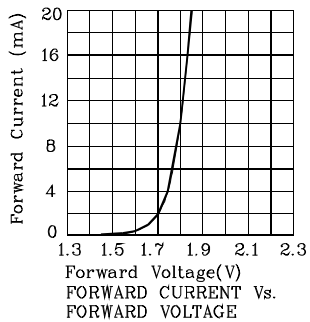
Part Number	Emitting Color	Emitting Material	Luminous Intensity (I <sub>F</sub> =10mA) ucd		Wavelength nm λP	Description
XAMR30C	Red	GaAlAs	min.	typ.	660	Common Cathode, Rt. Hand Decimal.



❖ MR

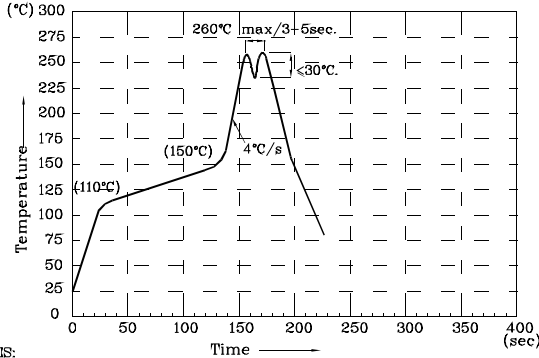


Note: the curves are on the segment c,d,g,h,k,m,n,s,r and t.



Note: the curves are on the segment a,b,e,f,p,u and DP.

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



NOTES:

- 1.Recommum 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**

