SunLED
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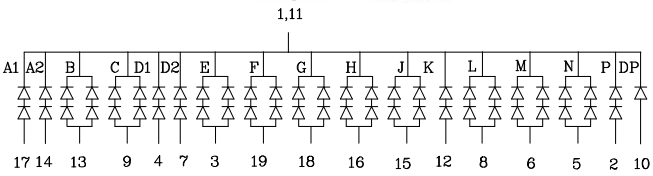
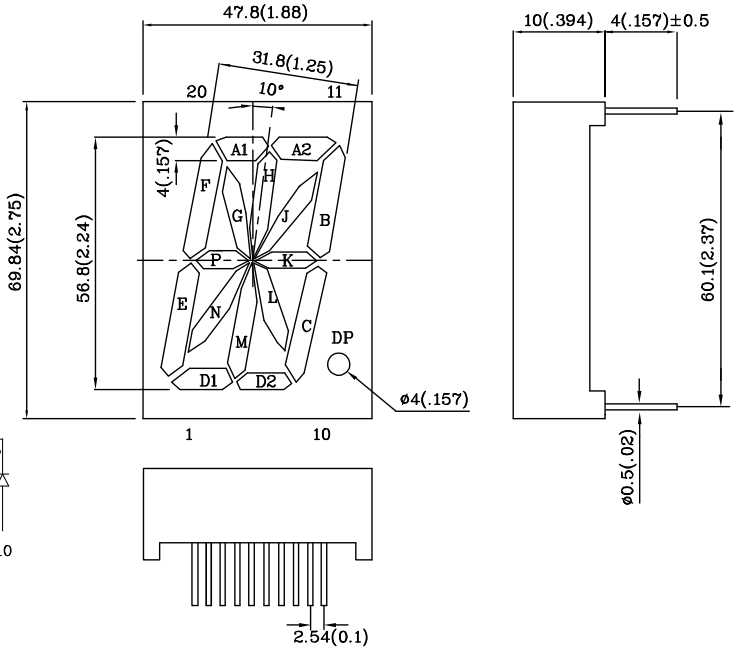
Part Number: **AMR60C**

56.8mm (2.3 ") 16 SEGMENT SINGLE DIGIT
ALPHANUMERIC DISPLAY

Features

- 2.3 INCH CHARACTER HEIGHT.
- LOW CURRENT OPERATION.
- HIGH CONTRAST AND LIGHT OUTPUT.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- MECHANICALLY RUGGED.
- STANDARD: GRAY FACE, WHITE SEGMENT.
- RoHS COMPLIANT.





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.

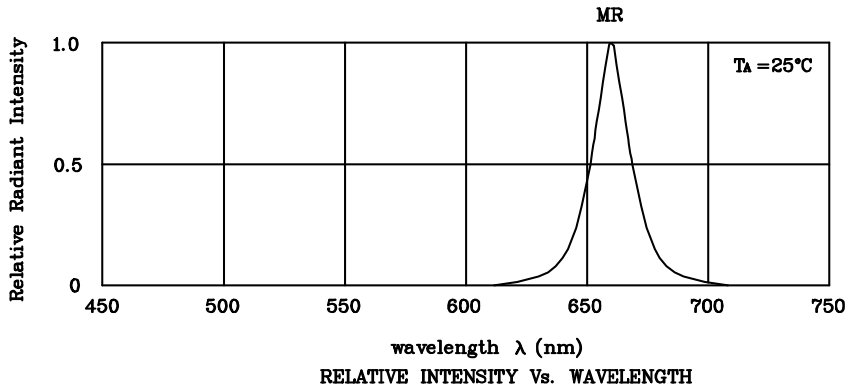
Absolute maximum ratings (TA=25°C)			**MR (GaAlAs)**	**Unit**
Reverse Voltage	A1,A2,D1, D2,P,K	VR	10	V
	B,C,E,F,G, H,J,L,M,N		10	
	DP		5	
Forward Current	A1,A2,D1, D2,P,K	IF	30	mA
	B,C,E,F,G, H,J,L,M,N		60	
	DP		30	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	A1,A2,D1, D2,P,K	iFS	155	mA
	B,C,E,F,G, H,J,L,M,N		310	
	DP		155	
Power Dissipation	A1,A2,D1, D2,P,K	PT	150	mW
	B,C,E,F,G, H,J,L,M,N		300	
	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)	A1,A2,D1,D2, P,K	VF	3.6	V
	B,C,E,F,G,H, J,L,M,N			
	DP		1.8	
Forward Voltage (Max.) (IF=10mA)	A1,A2,D1,D2, P,K	VF	5.0	V
	B,C,E,F,G,H, J,L,M,N			
	DP		2.5	
Reverse Current (Max.) (VR=10V)	A1,A2,D1,D2, P,K	IR	10	uA
Reverse Current (Max.) (VR=10V)	B,C,E,F,G,H, J,L,M,N		20	
Reverse Current (Max.) (VR=5V)	DP		10	
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: **AMR60C**

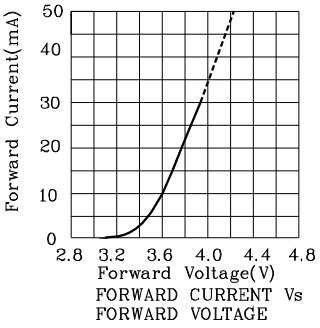
56.8mm (2.3 ") 16 SEGMENT SINGLE DIGIT ALPHANUMERIC DISPLAY

Part Number	Emitting Color	Emitting Material	Luminous Intensity (IF=10mA) ucd		Wavelength nm λ P	Description
			min.	typ.		
AMR60C	Red	GaAlAs	12000	74990	660	Common Cathode, Rt. Hand Decimal

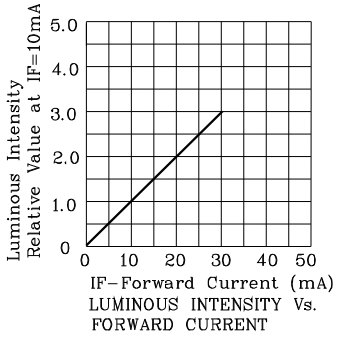


RELATIVE INTENSITY Vs. WAVELENGTH

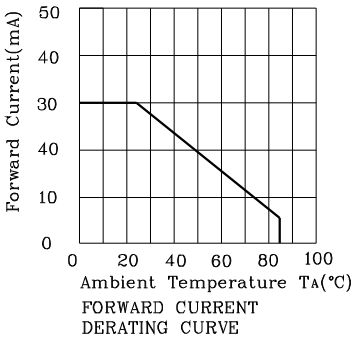
❖ **MR**



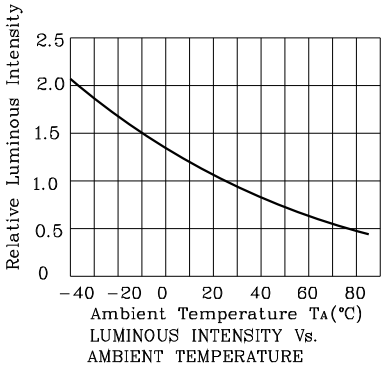
FORWARD CURRENT Vs FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT

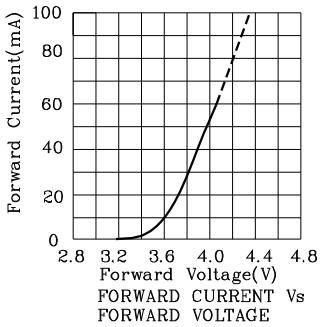


FORWARD CURRENT DERATING CURVE

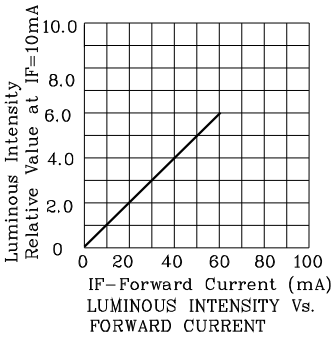


LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE

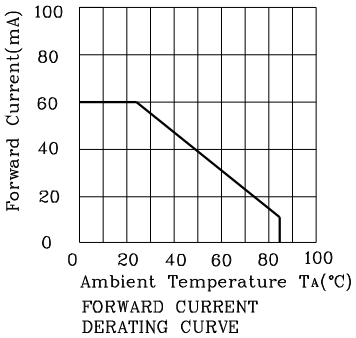
Note:the curves are on the segment a1,a2,d1,d2,p,k.



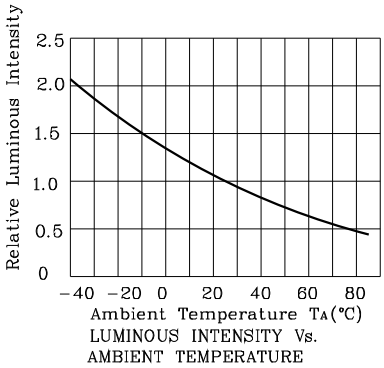
FORWARD CURRENT Vs
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT

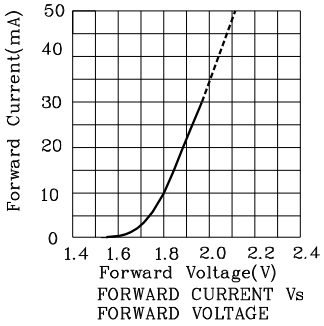


FORWARD CURRENT
DERATING CURVE

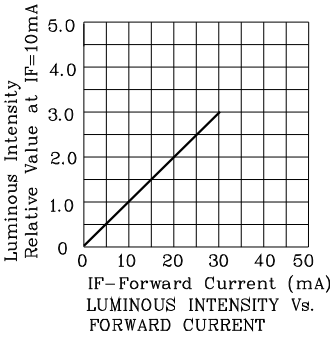


LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

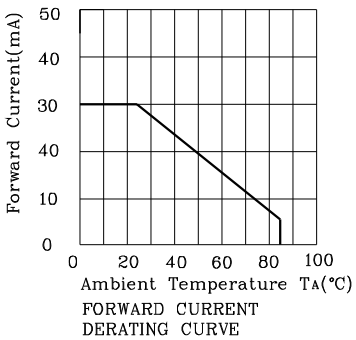
Note:the curves are on the segment b,c,e,f,g,h,j,l,m,n.



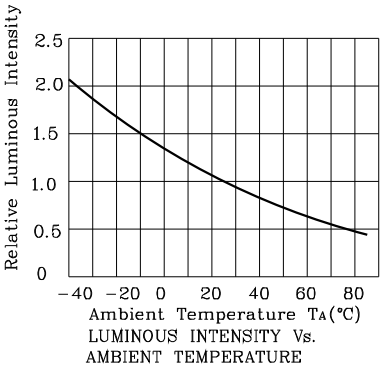
FORWARD CURRENT Vs
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT



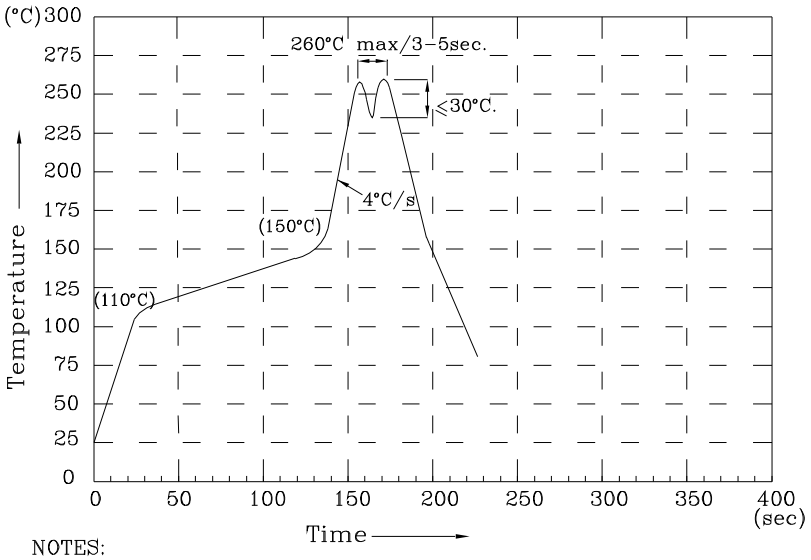
FORWARD CURRENT
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

Note:the curves are on the DP.

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:

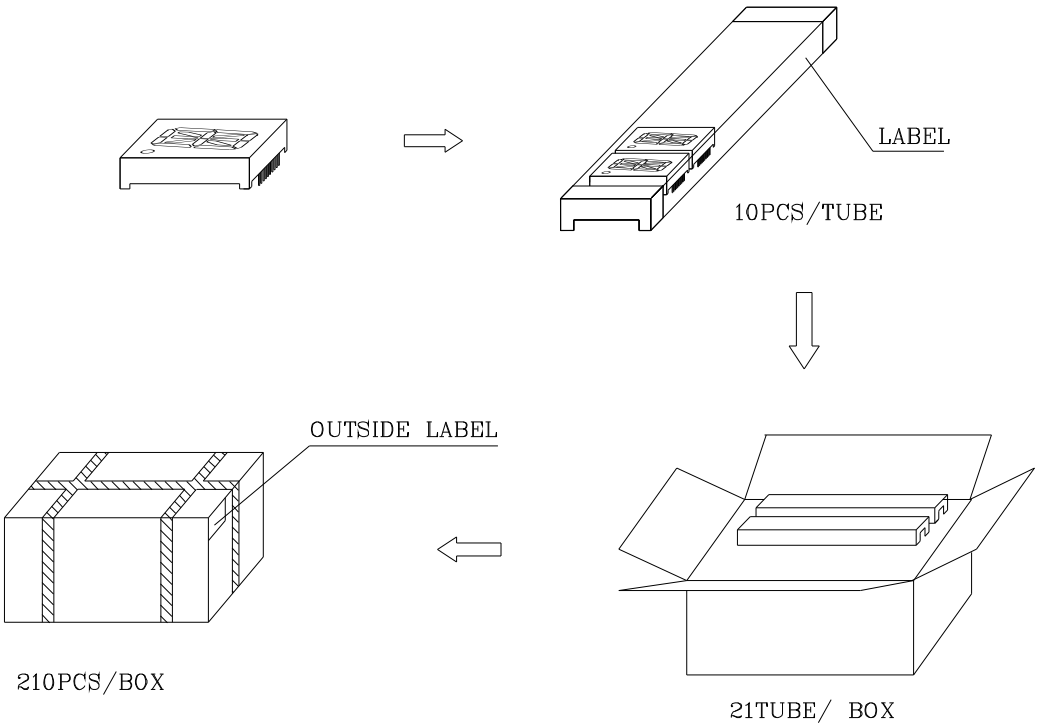
1. Wavelength: +/-1nm

2. Luminous Intensity / Luminous Flux: +/-15%

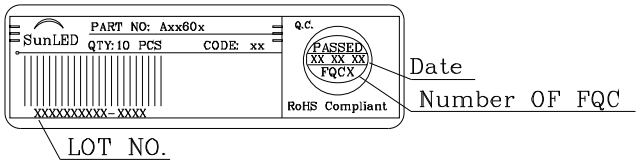
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS AMR60C



Inside LABEL Paste On The IC-tube



Outside LABEL Paste On The Box