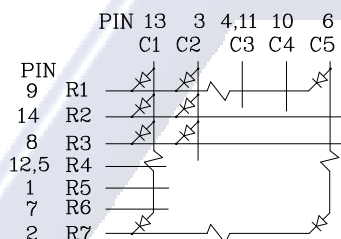


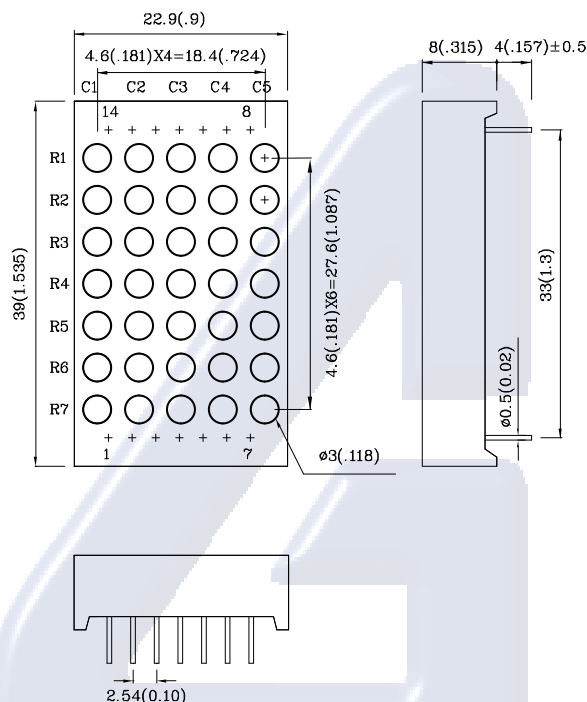
Features

- 1.2 INCH MATRIX HEIGHT.
- DOT SIZE 3mm.
- LOW CURRENT OPERATION.
- HIGH CONTRAST AND LIGHT OUTPUT.
- COMPATIBLE WITH ASCII AND EBCDIC CODES.
- COLUMN CATHODE AND COLUMN ANODE AVAILABLE.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- MECHANICALLY RUGGED.
- STANDARD : GRAY FACE, WHITE DOT.
- RoHS COMPLIANT.

**Notes:**

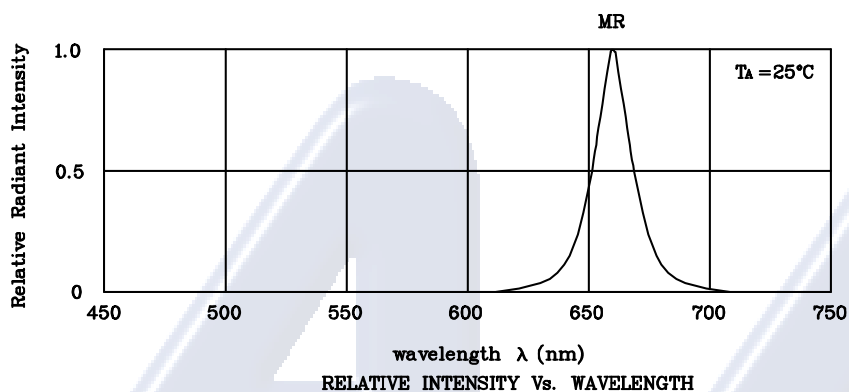
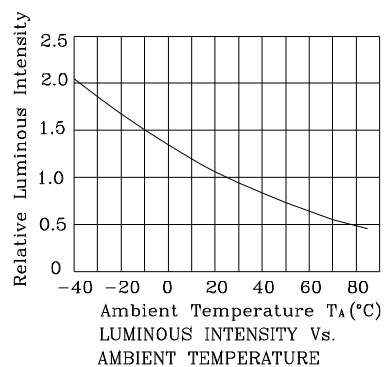
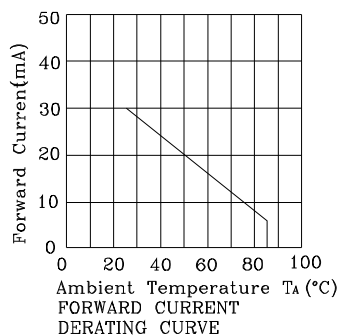
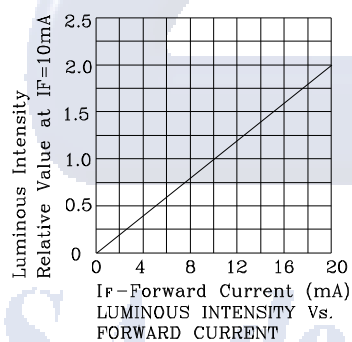
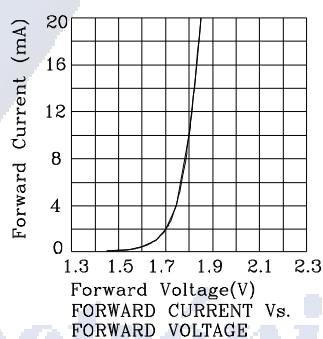
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
3. Specifications are subject to change without notice.

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

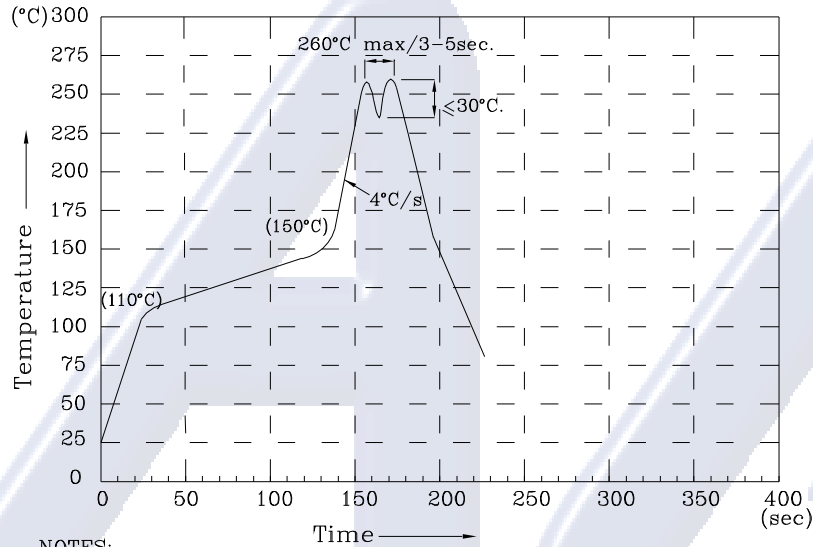


Operating Characteristics (TA=25°C)		MR (GaAlAs)	Unit
Forward Voltage (Typ.) (IF=10mA)	VF	1.8	V
Forward Voltage (Max.) (IF=10mA)	VF	2.5	V
Reverse Current (Max.) (VR=5V)	IR	10	uA
Wavelength of Peak Emission (Typ.) (IF=10mA)	λ P	660	nm
Wavelength of Dominant Emission (Typ.) (IF=10mA)	λ D	640	nm
Spectral 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 (IF=10mA) ucd		Wavelength nm λ P	Description
			min.	typ.		
XMMR30A	Red	GaAlAs	8000	35990	660	Column Anode
Published Date : JAN 08,2008 Drawing No : XDSA1841 V7 Checked : Shin Chi P.1/4						

❖ **MR**

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:

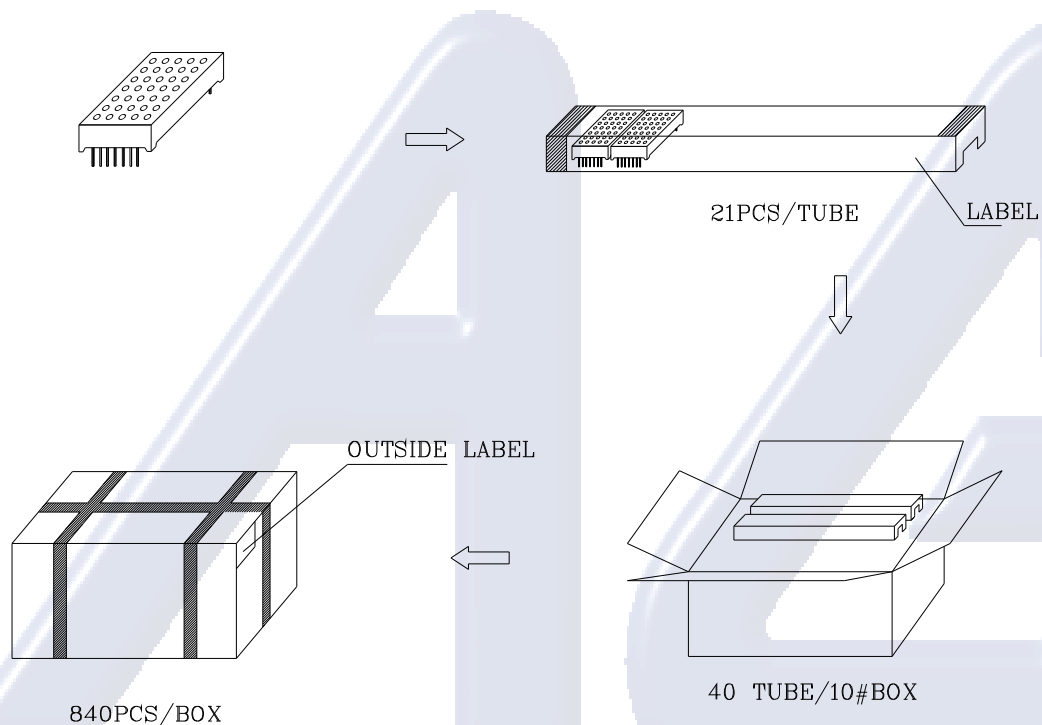
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous intensity / luminous flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

Part Number: **GMM-12057ASB**

30mm (1.2 ") 5x7 DOT MATRIX DISPLAY

PACKING & LABEL SPECIFICATIONS**GMM-12057ASB**

Inside LABEL Paste On The IC-tube

SunLED	PART NO: XMxx30x	Q.C.
QTY: 21 PCS	CODE: xx	PASSED XX XX XX FQC
XXXXXXXX-XXXX	RoHS Compliant	
LOT NO.		

Date
Number OF FQC

Outside LABEL Paste On The Box

BOX Number	XXXX	XXXX
XMxx30x	840	XX

BIN CODE

Number OF QA

Date