SunLED
www.SunLEDusa.com

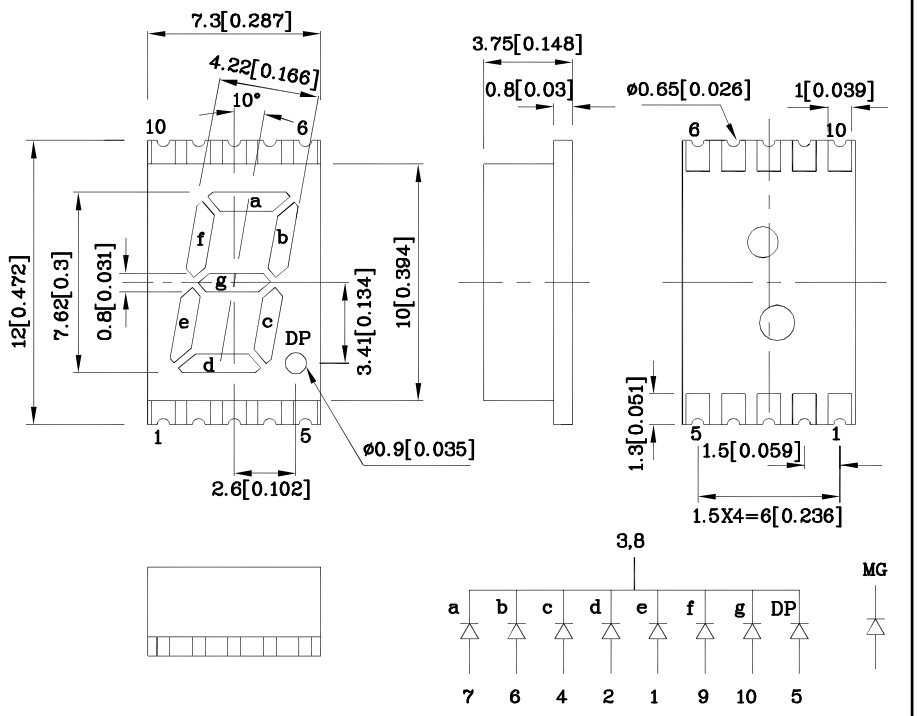
Part Number: XZFMG07C

SURFACE MOUNT DISPLAY

Features

- 0.3 inch digit height
- Robust package
- Low power consumption
- Standard configuration: Gray face w/ white segments
- Package : 550pcs / reel
- Moisture sensitivity level : level 2a
- RoHS compliant

Package Schematics

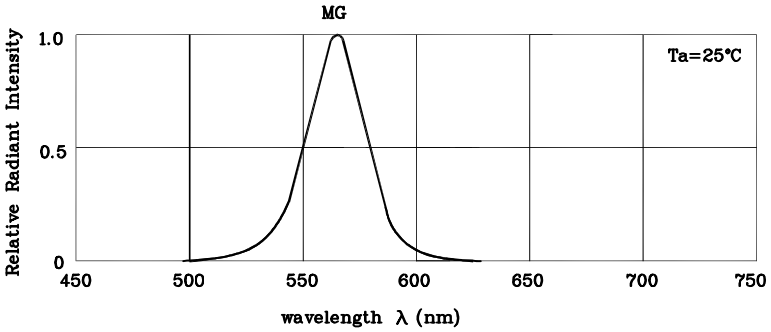


Notes:
1. All dimensions are in millimeters (inches), Tolerance is ±0.25(0.01")unless otherwise noted.
2. Specifications are subject to change without notice.
3.The gap between the reflector and PCB shall not exceed 0.25mm.

Absolute Maximum Ratings (T_A=25°C)		**MG (GaP)**	**Unit**
Reverse Voltage	V_R	5	V
Forward Current	I_F	25	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i_{FS}	140	mA
Power Dissipation	P_D	62.5	mW
Operating Temperature	T_A	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	

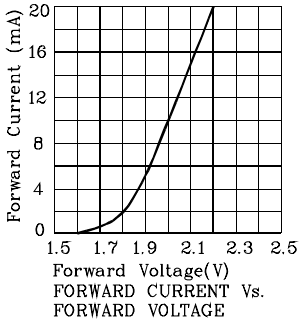
Operating Characteristics (T_A=25°C)		**MG (GaP)**	**Unit**
Forward Voltage (Typ.) (I_F=10mA)	V_F	2	V
Forward Voltage (Max.) (I_F=10mA)	V_F	2.5	V
Reverse Current (Max.) (V_R=5V)	I_R	10	uA
Wavelength of Peak Emission (Typ.) (I_F=10mA)	λP	565	nm
Wavelength of Dominant Emission (Typ.) (I_F=10mA)	λD	568	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I_F=10mA)	△λ	30	nm
Capacitance (Typ.) (V_F=0V, f=1MHz)	C	15	pF

Part Number	Emitting Color	Emitting Material	Luminous Intensity (I_F=10mA) ucd		Wavelength nm λP	Description
			min.	typ.		
XZFMG07C	Super Bright	GaP	1400	3490	565	Common Cathode, Rt.Hand Decimal.

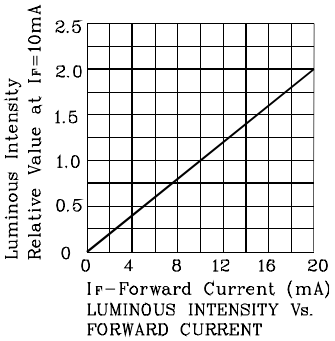


RELATIVE INTENSITY Vs. WAVELENGTH

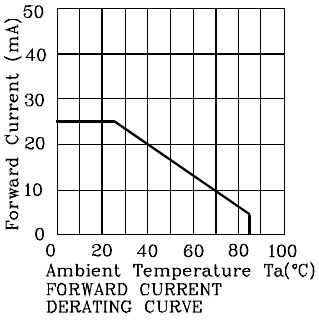
❖ **MG**



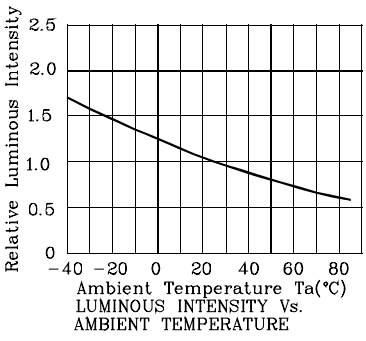
FORWARD CURRENT Vs.
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT



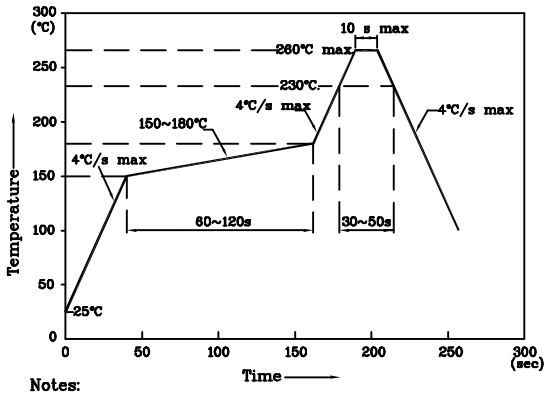
FORWARD CURRENT
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

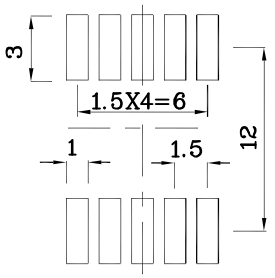
LED is recommended for reflow soldering and soldering profile is shown below.

Reflow Soldering Profile for SMD Products (Pb-Free Components)

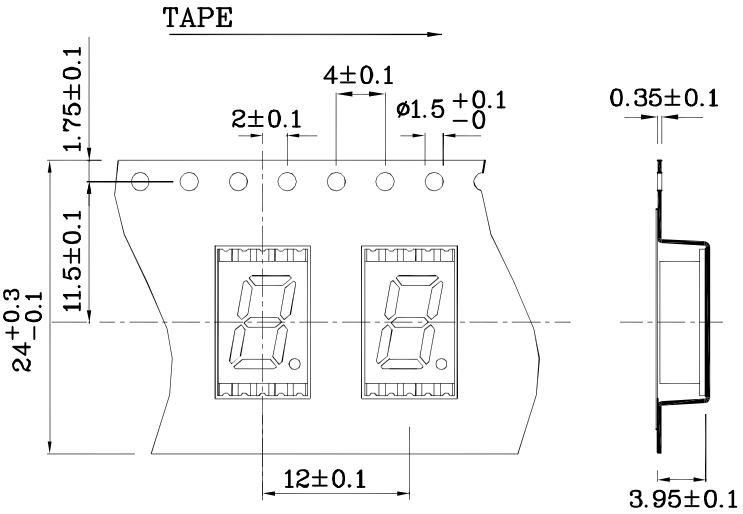


Notes:
1. Maximum soldering temperature should not exceed 260°C
2. Recommended reflow temperature: 145°C-260°C
3. Do not put stress to the epoxy resin during high temperatures conditions

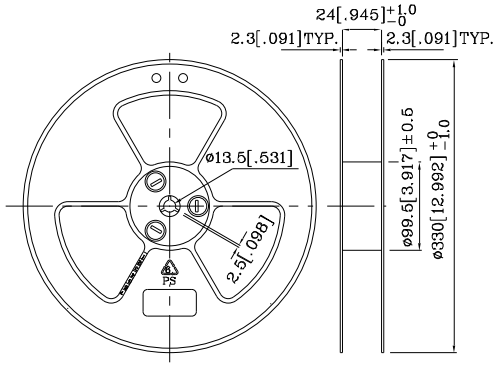
❖ Recommended Soldering Pattern (Units : mm; Tolerance: ±0.15)



❖ Tape Specification (Units : mm)



❖ Reel Dimension



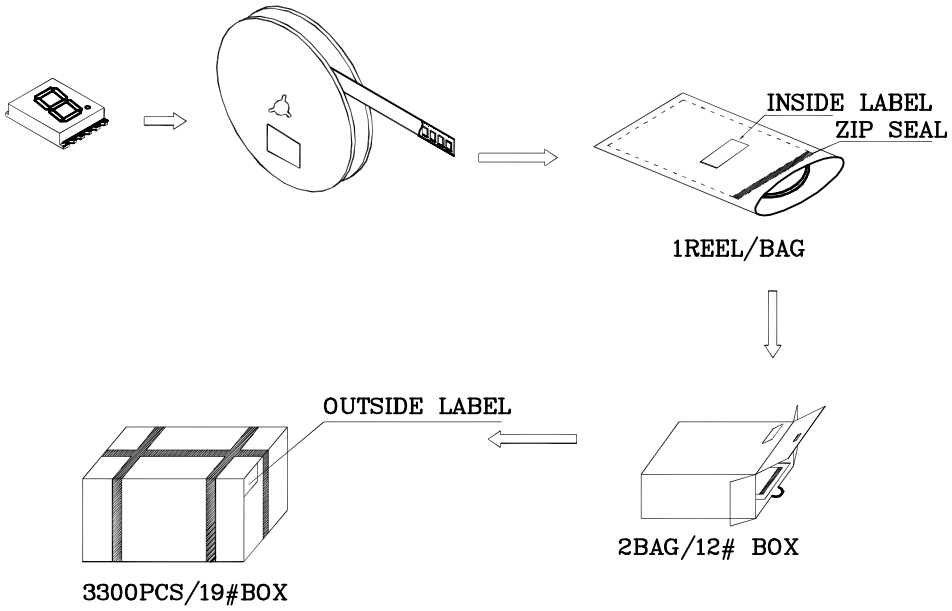
Remarks:

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:

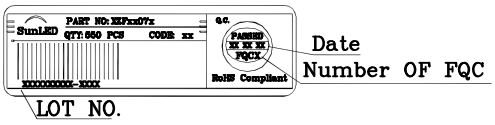
1. Wavelength: +/-1nm
2. Luminous intensity / luminous flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

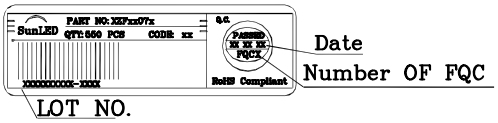
PACKING & LABEL SPECIFICATIONS



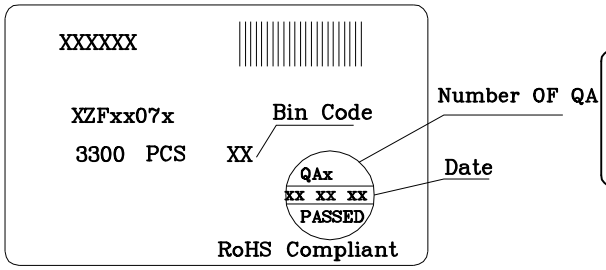
Inside Label On tape



Outside Label On Bag



Outside Label On 19#Box



Outside Label On 12#Box