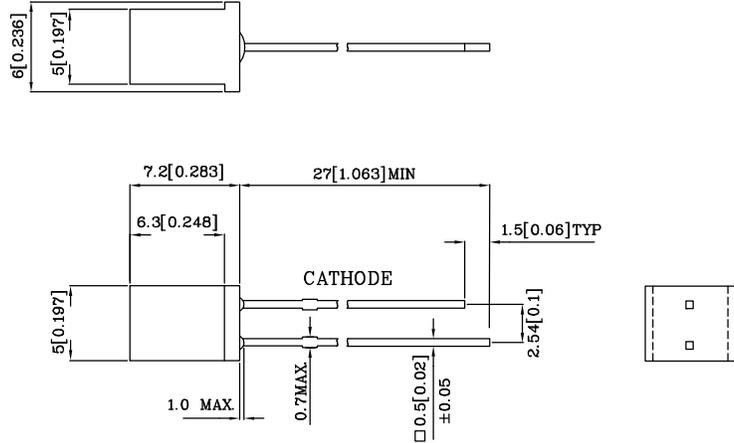## Features

● Low power consumption.

● Wide viewing angle.

● Reliable and rugged.

● Excellent uniformity of light output.

● Ideal as flush mounted panel indicators.

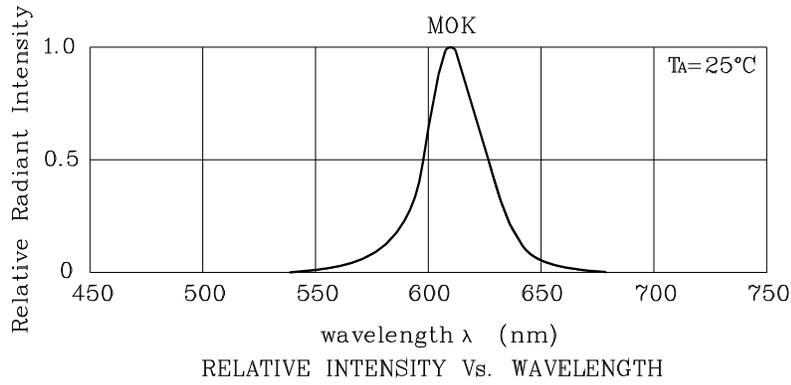● Long life - solid state reliability.

● RoHS compliant.

Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is ± 0.25(0.01") unless otherwise noted.
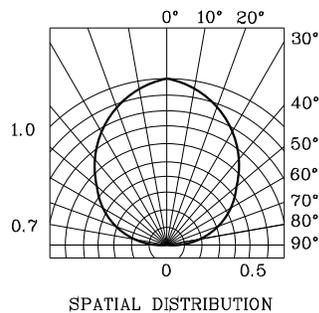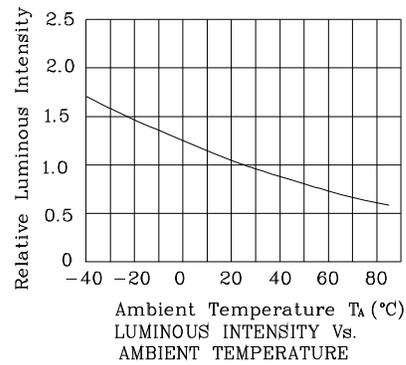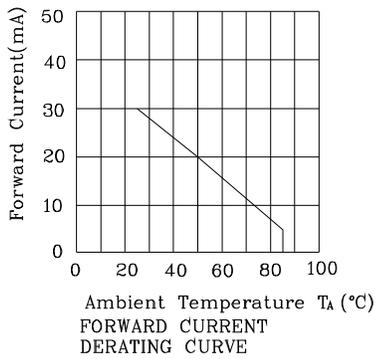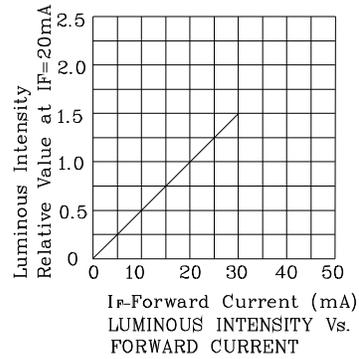
3.Specifications are subject to change without notice.

Absolute Maximum Ratings (TA=25°C)		MOK (AlGaInP)	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	195	mA
Power Dissipation	PD	75	mW
Operating Temperature	TA	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	
Lead Solder Temperature [2mm Below Package Base]		260°C For 3 Seconds	
Lead Solder Temperature [5mm Below Package Base]		260°C For 5 Seconds	

Operating Characteristics (TA=25°C)		MOK (AlGaInP)	Unit
Forward Voltage (Typ.) (IF=20mA)	VF	2.1	V
Forward Voltage (Max.) (IF=20mA)	VF	2.5	V
Reverse Current (Max.) (VR=5V)	IR	10	uA
Wavelength of Peak Emission (Typ.) (IF=20mA)	λ P	610	nm
Wavelength of Dominant Emission (Typ.) (IF=20mA)	λ D	601	nm
Spectral Line Full Width At Half-Maximum (Typ.) (IF=20mA)	Δλ	29	nm
Capacitance (Typ.) (VF=0V, f=1MHz)	C	15	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=20mA) mcd min.	typ.	Wavelength nm λ P	Viewing Angle 2 θ 1/2
XSMOK23MB	Orange	AlGaInP	White Triple Diffused	36	94	610	110°

MOK

RELATIVE INTENSITY Vs. WAVELENGTH

❖ **MOK**

FORWARD CURRENT Vs.
FORWARD VOLTAGE

LUMINOUS INTENSITY Vs.
FORWARD CURRENT

FORWARD CURRENT
DERATING CURVE

LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

SPATIAL DISTRIBUTION
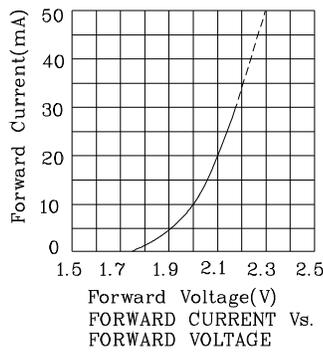
Wave Soldering Profile For Lead-free Through-hole LED.
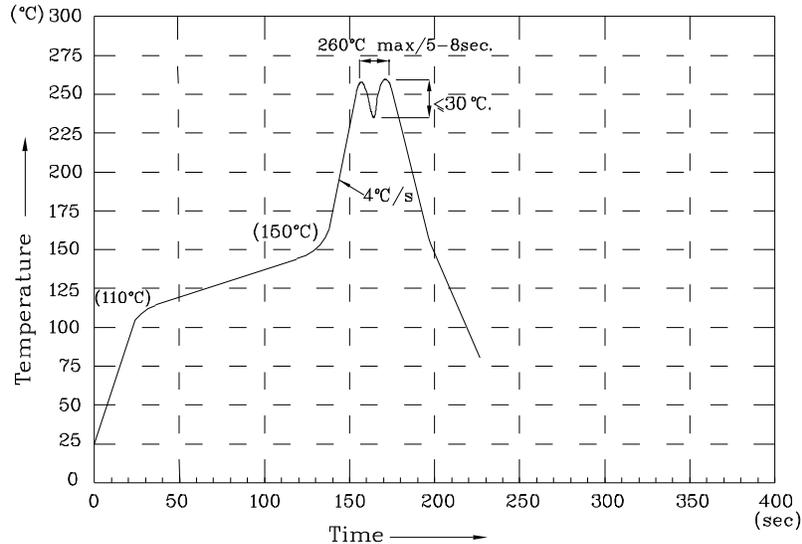
NOTES:

1. Recommend the wave temperature 245℃~260℃.The
maximum soldering temperature should be less than 260℃.
2. Do not apply stress on epoxy resins when temperature is over 85 degree℃.
3. The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
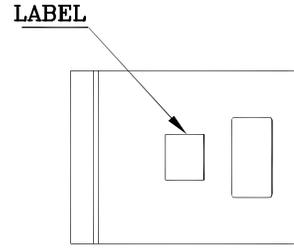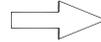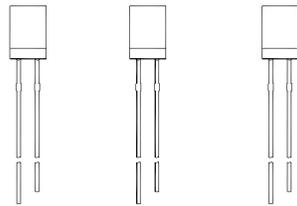4. No more than once.

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%
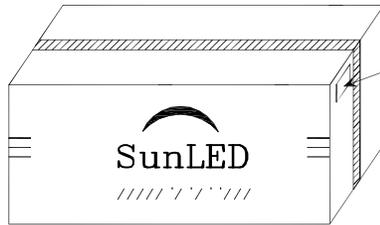
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS   XSMOK23MB

LABEL

500 PCS / BAG

OUTSIDE LABEL

20K / BOX

10K / BOX

SunLED

Q.C.

Q C

XX XX. XXXX

PASSED
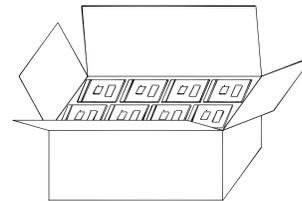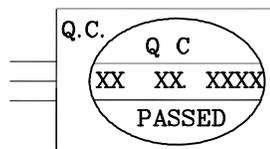
P/NO : XSxxx23x

QTY : 500 pcs   CODE: XXX

S/N : XX

LOT NO:

XXXXXXXXXXXXXXXXXXXXXXXX

RoHS Compliant