

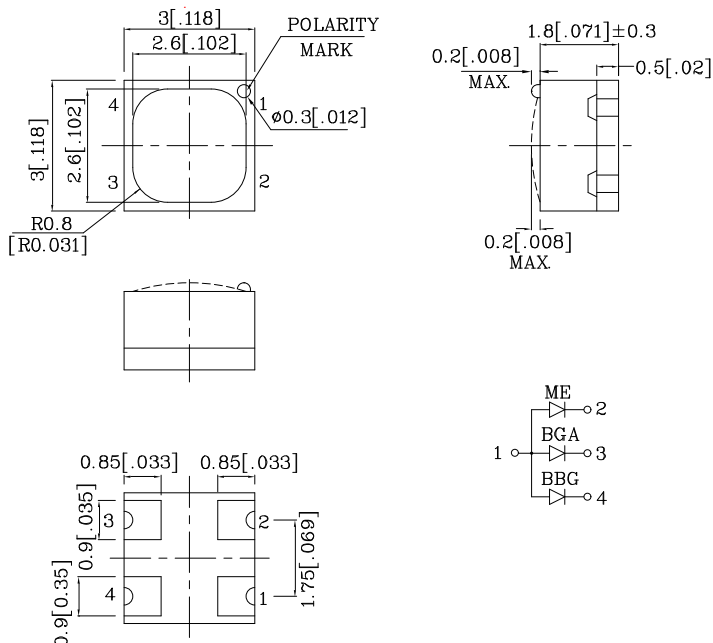
PRELIMINARY SPEC

Features

- LOW POWER CONSUMPTION.
- 3.0mmx3.0mm SMT LED, 1.8mm THICKNESS.
- ONE RED, ONE GREEN AND ONE BLUE CHIPS IN ONE PACKAGE.
- CAN PRODUCE ANY COLOR IN VISIBLE SPECTRUM, INCLUDING WHITE LIGHT.
- PACKAGE : 1000PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 4.
- RoHS COMPLIANT.



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES



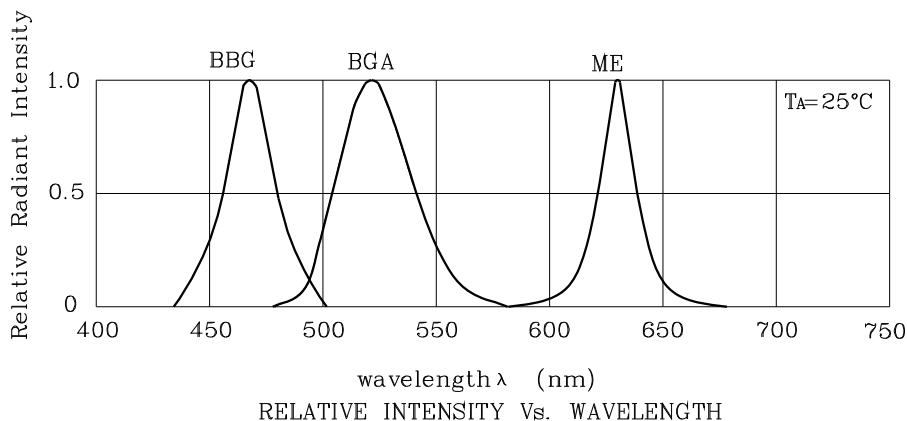
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.2(0.008)$ unless otherwise noted.
3. Specifications are subject to change without notice.

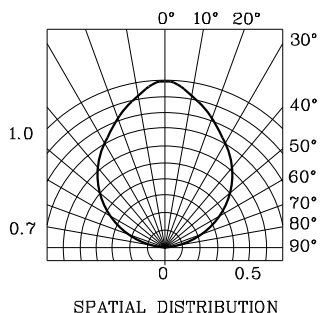
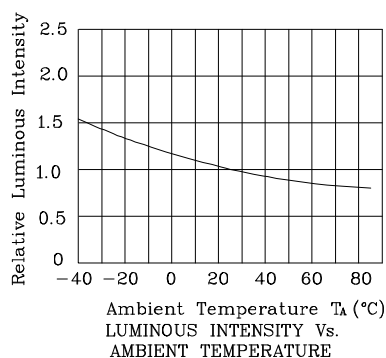
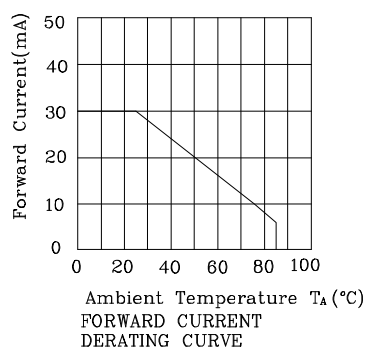
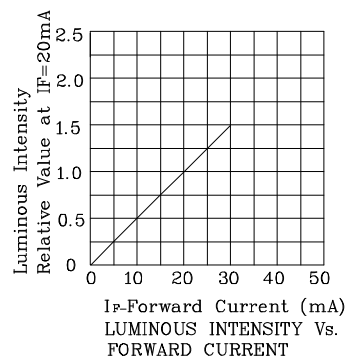
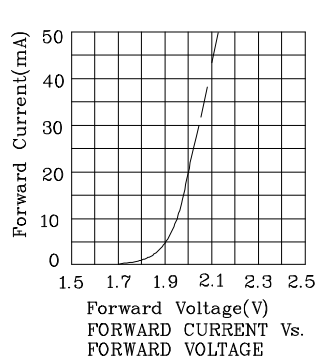
Absolute Maximum Ratings (TA=25°C)		ME (InGa AlP)	BGA (InGa N)	BBG (InGa N)	Unit
Reverse Voltage	VR	5	5	5	V
Forward Current	IF	30	30	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	195	100	100	mA
Power Dissipation	PT	75	120	120	mW
Operating Temperature	TA	-40 ~ +85			°C
Storage Temperature	Tstg	-40 ~ +85			
Electrostatic Diacharge Threshold (HBM)		-	1000	1000	V

Operating Characteristics (TA=25°C)		ME (InGa AlP)	BGA (InGa N)	BBG (InGa N)	Unit
Forward Voltage (Typ.) (IF=20mA)	VF	2.0	3.2	3.2	V
Forward Voltage (Max.) (IF=20mA)	VF	2.5	4.0	4.0	V
Reverse Current (Max.) (VR=5V)	IR	10	10	10	uA
Wavelength Of Peak Emission (Typ.) (IF=20mA)	λ P	630	520	468	nm
Wavelength Of Dominant Emission (Typ.) (IF=20mA)	λ D	621	525	470	nm
Spectral Line Full Width At Half-Maximum (Typ.) (IF=20mA)	Δλ	20	35	21	nm
Capacitance (Typ.) (VF=0V, f=1MHz)	C	25	100	100	pF

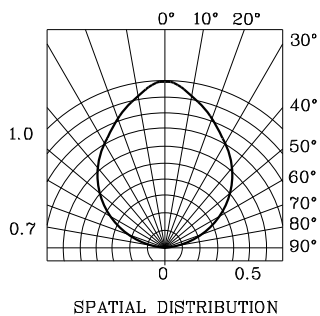
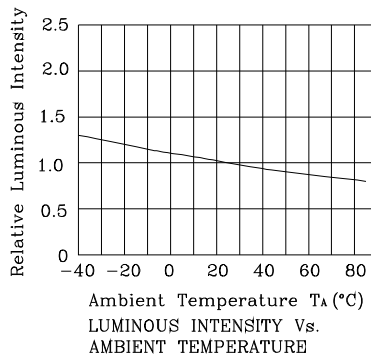
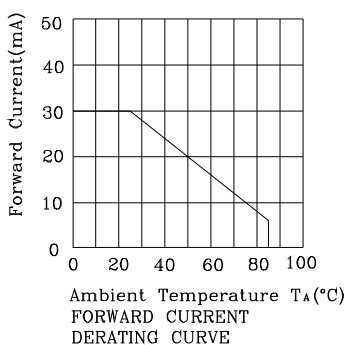
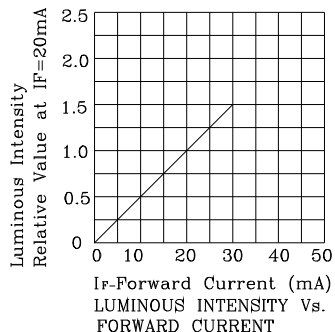
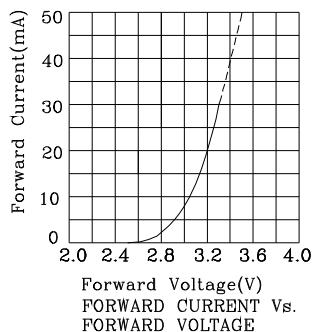
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=20mA) mcd		Wavelength nm λ P	Viewing Angle 2 θ 1/2
				min.	typ.		
ZMEBGABBG86W	Red	InGaAlP	Water Clear	180	397	630	100°
	Green	InGaN		110	248	520	
	Blue	InGaN		70	158	468	
Published Date : FEB 25,2008		Drawing No : SDSA6262		V1	Checked : B.L.LIU		P.1/6



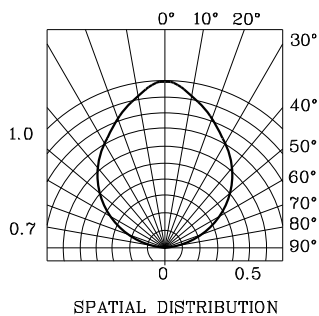
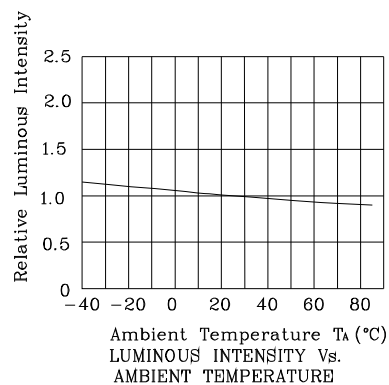
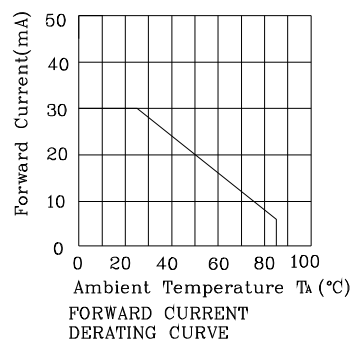
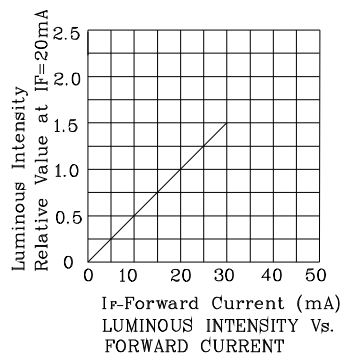
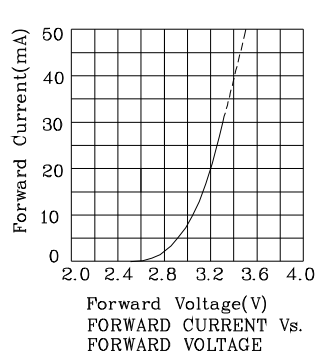
❖ ME



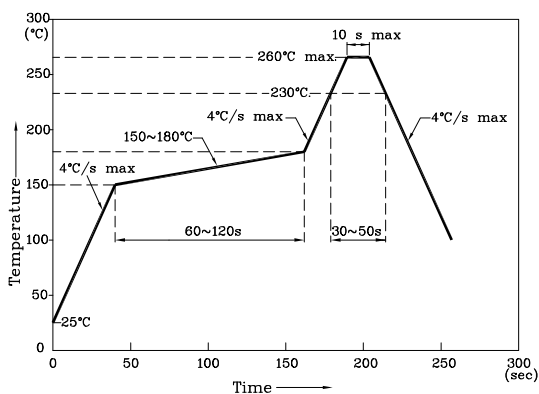
❖ BGA



❖ **BBG**



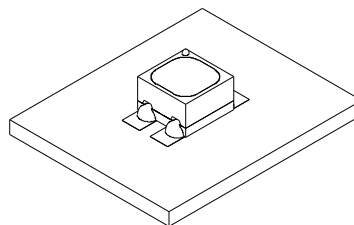
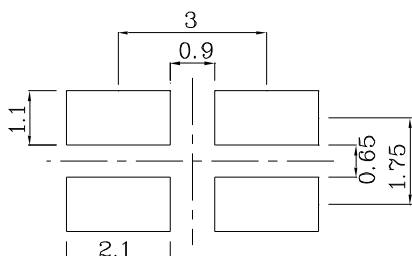
Reflow Soldering Profile For Lead-free SMT Process.



NOTES:

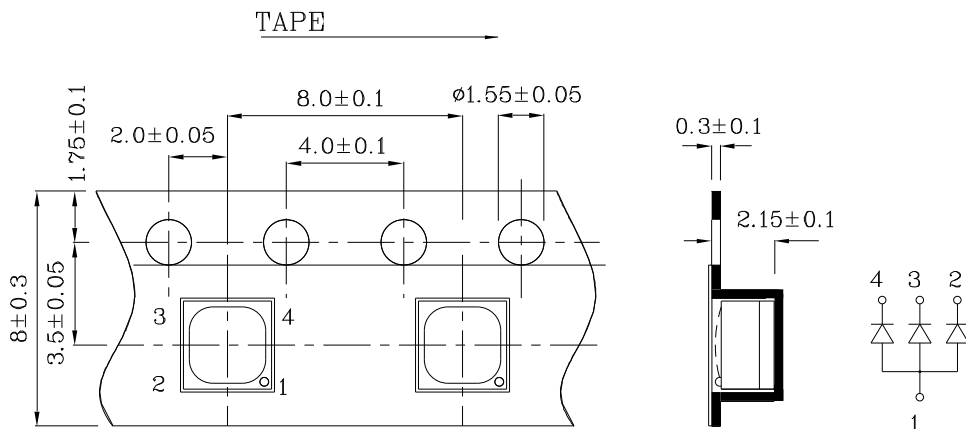
1. Maximum soldering temperature should not exceed 260°C.
2. Recommended reflow temperature: 145°C-260°C.
3. Do not put stress to the epoxy resin during high temperatures conditions.

**❖ Recommended Soldering Pattern
(Units : mm; Tolerance: ±0.1)**



- ❖ **The device has a single mounting surface. The device must be mounted according to the specifications.**

❖ Tape Specification (Units : mm)



Remarks:

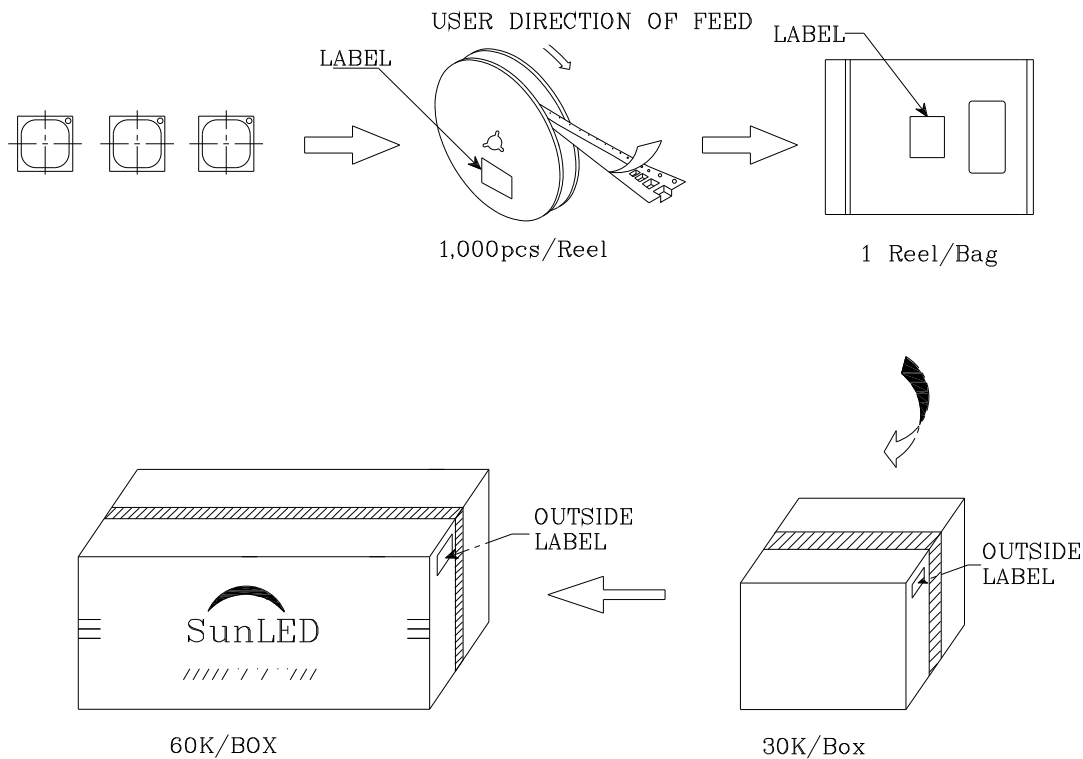
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: $\pm 1\text{nm}$
2. Luminous intensity / Luminous Flux: $\pm 15\%$
3. Forward Voltage: $\pm 0.1\text{V}$

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

ZMEBGABBG86W





Q.C. Q C
 XX XX XXXX
 PASSED

P/NO : Zxxx86x	
QTY : 1,000 pcs	CODE: XXX
S/N : XX	
LOT NO :	
 XXXXXXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	