



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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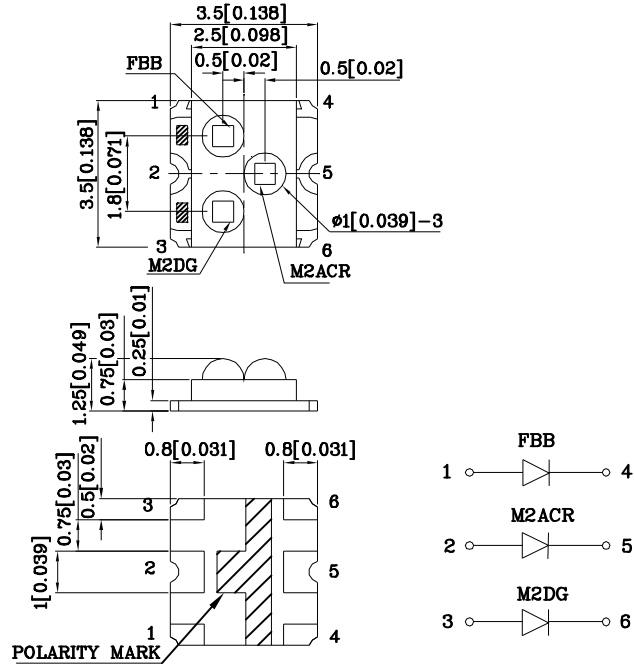
Features

- Ideal for indication light on hand held products
- Long life and robust package
- Variety of lens types and color choices available
- Package: 2000pcs / reel
- Moisture sensitivity level : level 3
- RoHS compliant



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Package Schematics



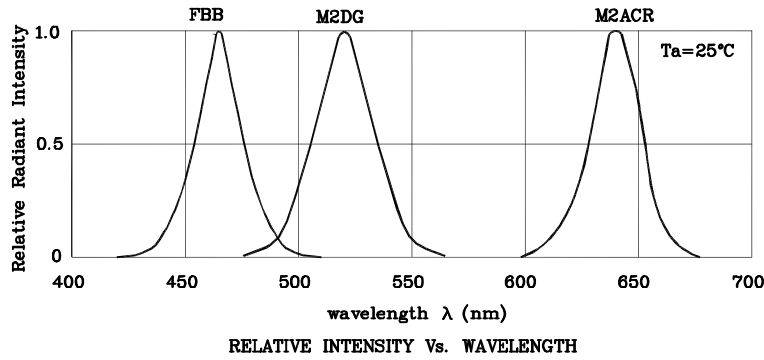
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.1(0.004)$ " unless otherwise noted.
3. Specifications are subject to change without notice.

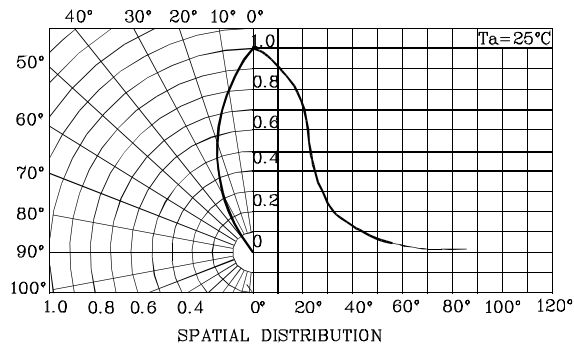
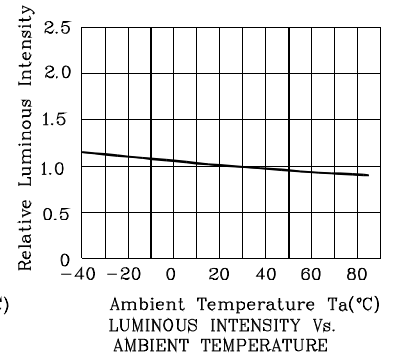
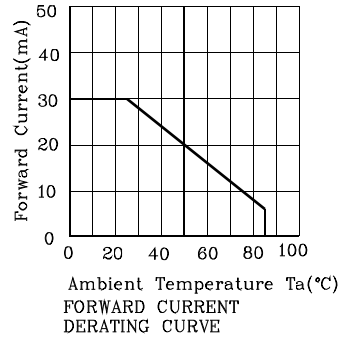
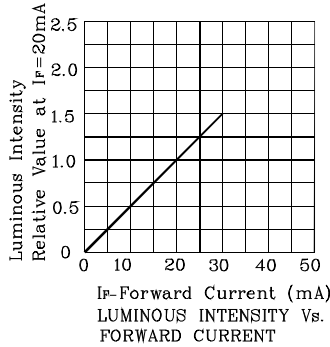
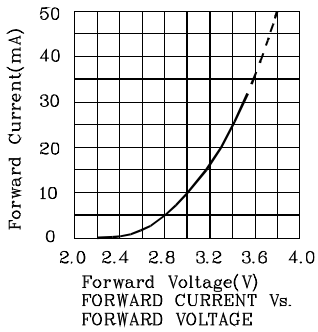
Absolute Maximum Ratings (T _A =25°C)		FBB (InGa N)	M2ACR (AlGaIn P)	M2DG (InGa N)	Unit
Reverse Voltage	V _R	5	5	5	V
Forward Current	I _F	30	30	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i _{FS}	100	150	100	mA
Power Dissipation	P _D	120	84	120	mW
Electrostatic Discharge Threshold (HBM)		250	-	450	V
Operating Temperature	T _A	-40 ~ +85			°C
Storage Temperature	T _{stg}				

Operating Characteristics (T _A =25°C)		FBB (InGa N)	M2ACR (AlGaIn P)	M2DG (InGa N)	Unit
Forward Voltage (Typ.) (I _F =20mA)	V _F	3.3	2.2	3.2	V
Forward Voltage (Max.) (I _F =20mA)	V _F	4	2.8	4	V
Reverse Current (Max.) (V _R =5V)	I _R	50	10	50	uA
Wavelength of Peak Emission (Typ.) (I _F =20mA)	λ _P	465	640	520	nm
Wavelength of Dominant Emission (Typ.) (I _F =20mA)	λ _D	470	625	525	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	22	25	35	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	100	27	100	pF

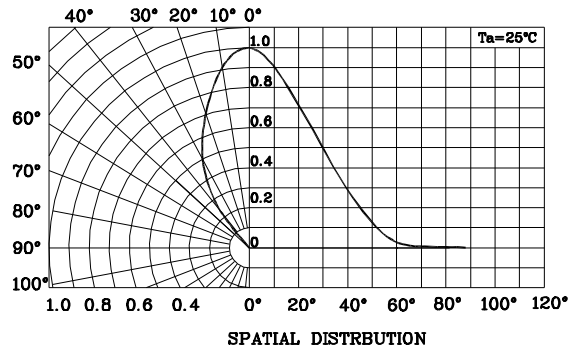
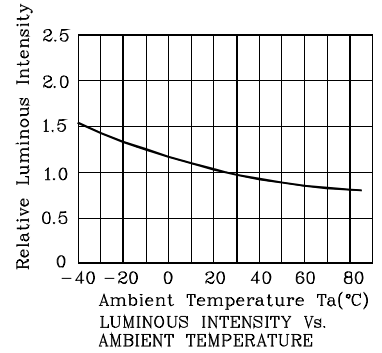
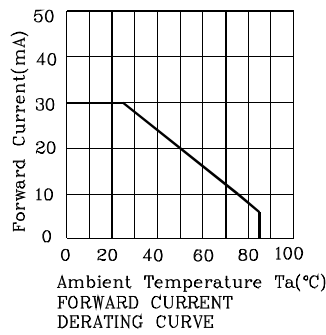
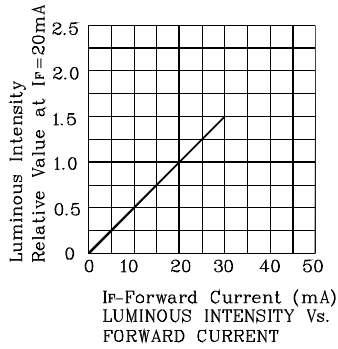
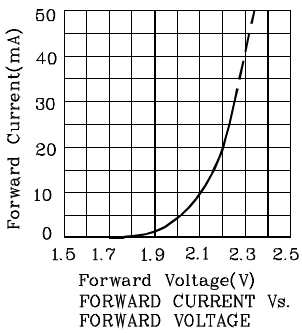
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (I _F =20mA) mcd		Wavelength nm λ _P	Viewing Angle 2θ 1/2
				min.	typ.		
XZFBBM2ACRDG92W-3	Blue	InGaN	Water Clear	380	795	465	45°
	Red	AlGaInP		2800	4990	640	60°
	Green	InGaN		1500	2190	520	40°



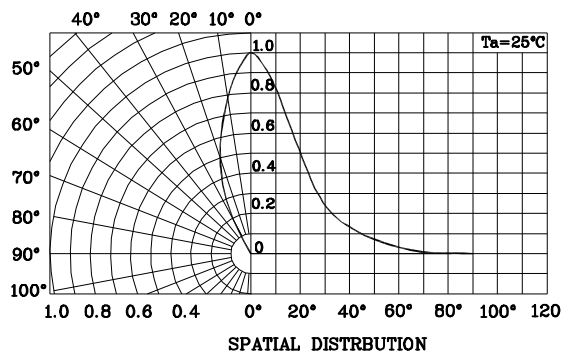
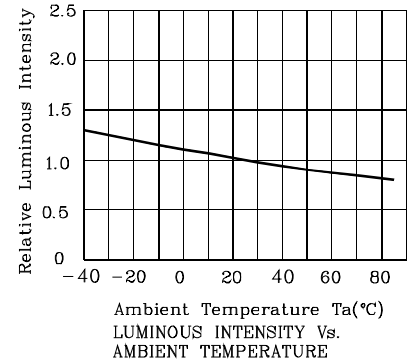
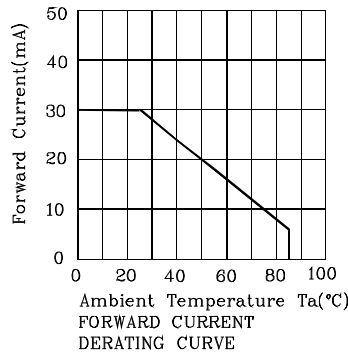
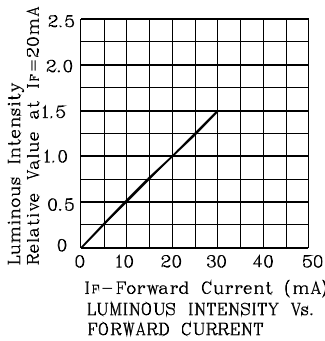
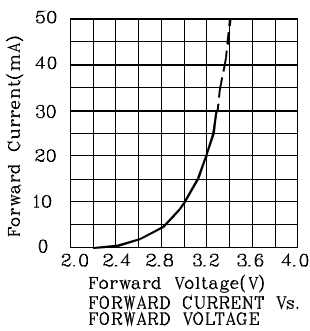
❖ FBB



❖ M2ACR



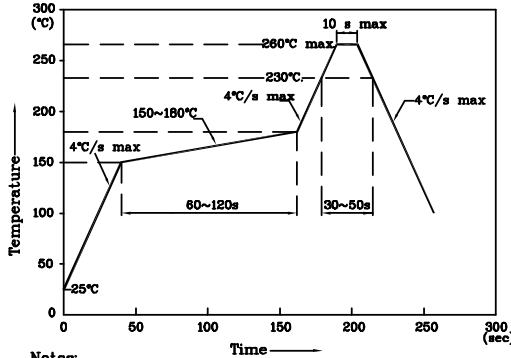
❖ M2DG



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

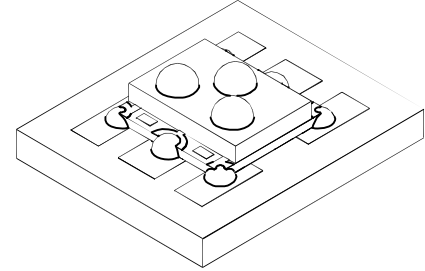
❖ The device has a single mounting surface. The device must be mounted according to the specifications.

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

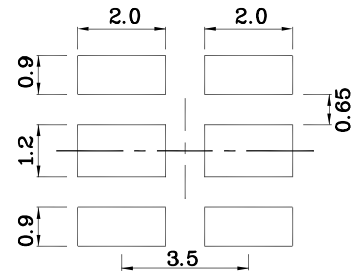


Notes:

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

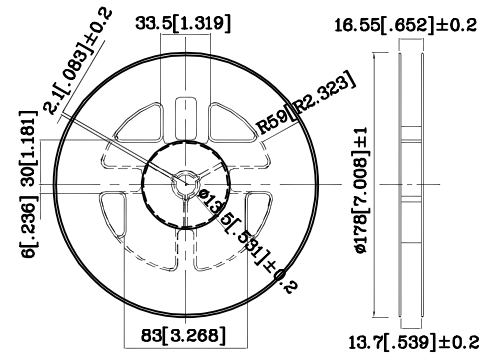
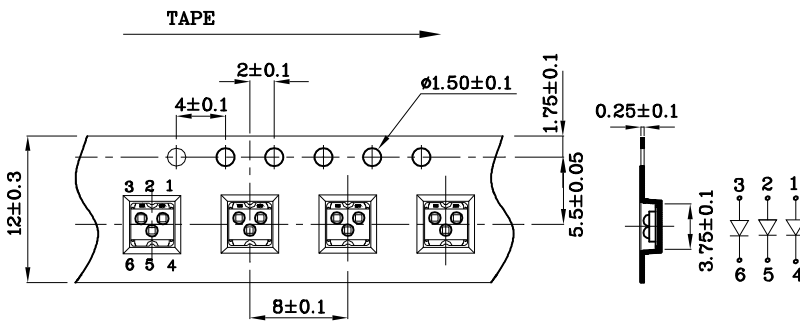


❖ Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



❖ Tape Specification (Units : mm)

❖ Reel Dimension



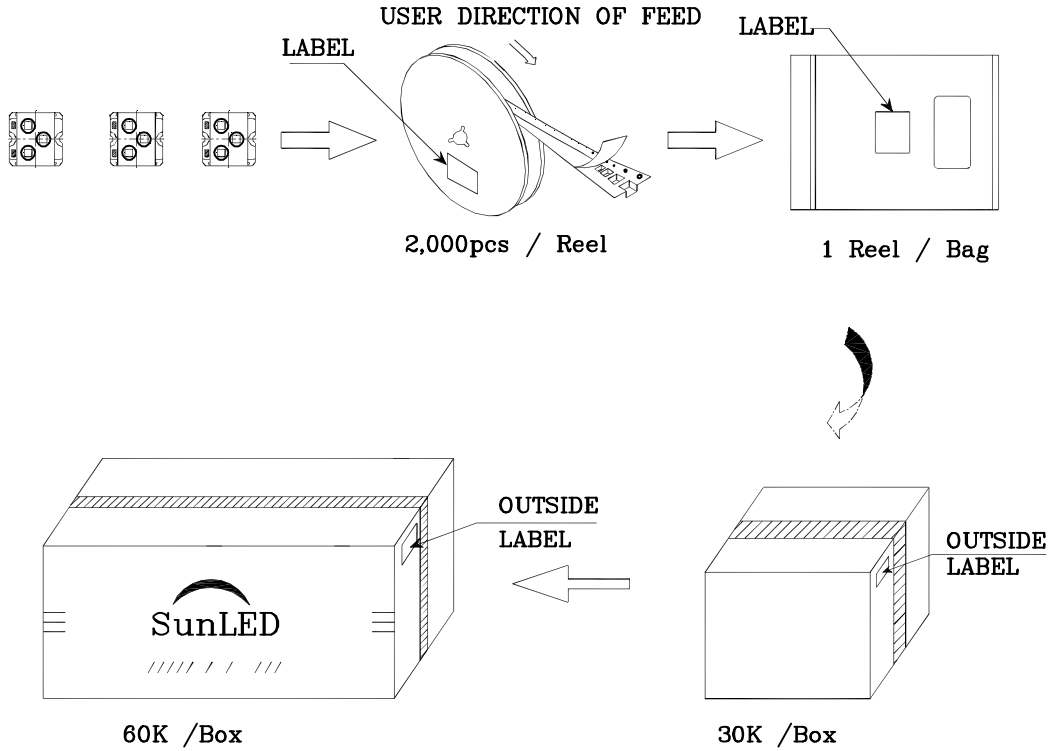

Remarks:

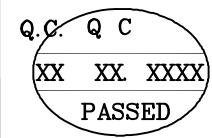

If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

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

	
P/NO : XZxxx92x-3	
QTY : 2,000pcs	CODE: XXX
S/N : XX	
LOT NO:	
 XXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	