

Excellent Integrated System Limited

Stocking Distributor

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[SunLED](#)
[XSM2CYK383W](#)

For any questions, you can email us directly:

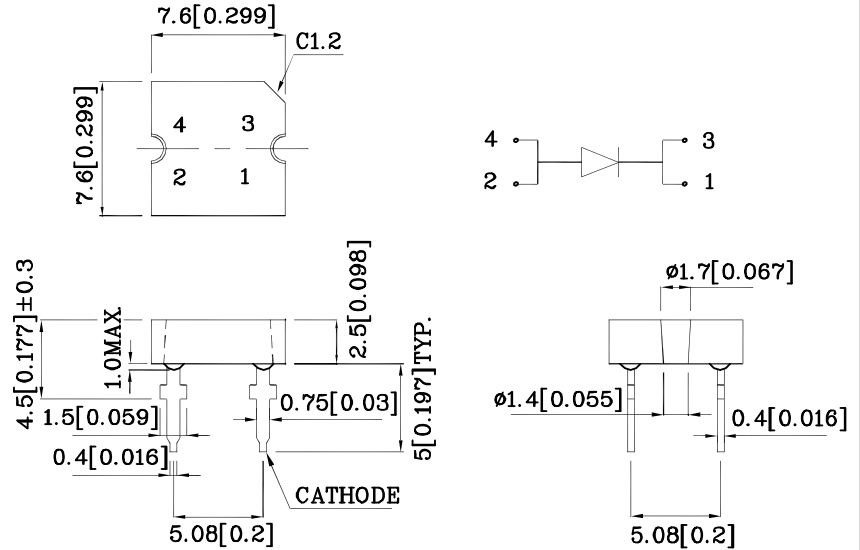
sales@integrated-circuit.com

Features

- High current operation for greater luminous output
- Low power consumption and thermal resistance
- Can be used with automatic insertion equipment
- RoHS Compliant



Package Schematics



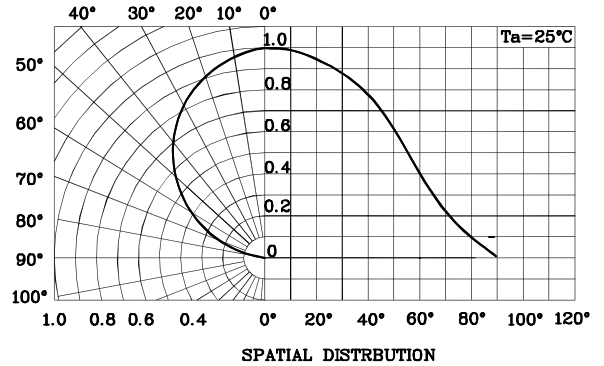
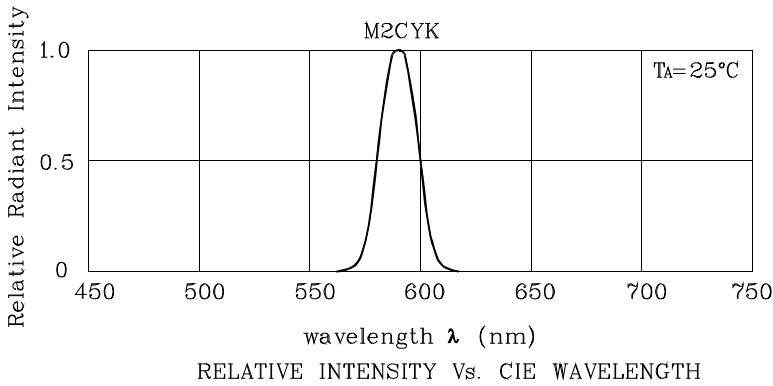
- Notes:
1. All dimensions are in millimeters (inches).
 2. Tolerance is ±0.25(0.01") unless otherwise noted.
 3. Specifications are subject to change without notice.

Absolute Maximum Ratings (T _A =25°C)		M2CYK (AlGaInP)	Unit
Reverse Voltage	V _R	5	V
Forward Current	I _F	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i _{FS}	140	mA
Power Dissipation	P _D	75	mW
Operating Temperature	T _A	-40 ~ +85	°C
Storage Temperature	T _{stg}	-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		

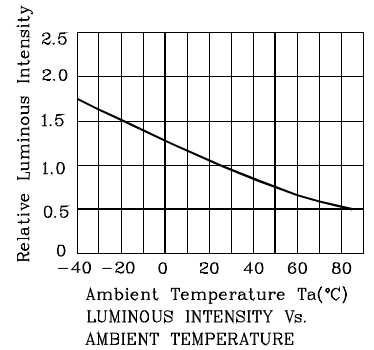
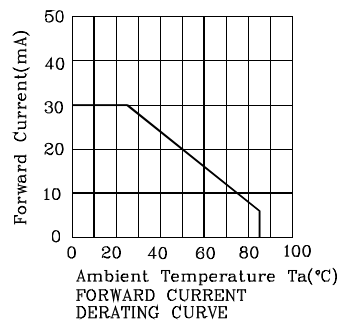
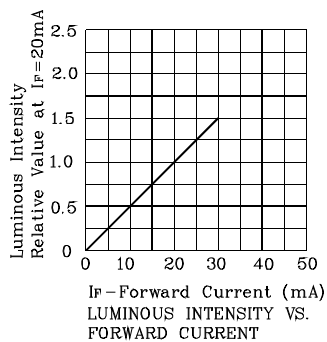
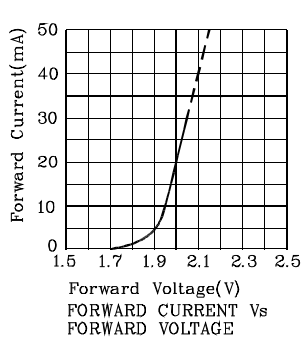
Operating Characteristics (T _A =25°C)		M2CYK (AlGaInP)	Unit
Forward Voltage (Typ.) (I _F =20mA)	V _F	2	V
Forward Voltage (Max.) (I _F =20mA)	V _F	2.5	V
Reverse Current (Max.) (V _R =5V)	I _R	10	uA
Wavelength of Peak Emission CIE127-2007*(Typ.) (I _F =20mA)	λ _P	590*	nm
Wavelength of Dominant Emission CIE127-2007*(Typ.) (I _F =20mA)	λ _D	590*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	20	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	45	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =20mA) mcd		Luminous Flux CIE127-2007* (I _F =20mA) mlm	Wavelength CIE127-2007* λ _P nm	Viewing Angle 2θ 1/2
				min.	typ.	typ.		
XSM2CYK383W	Yellow	AlGaInP	Water Clear	120*	238*	1500*	590*	110°

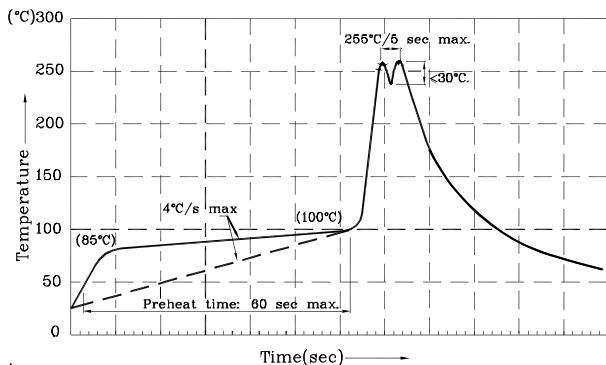
1. θ 1/2 Is the angle from optical centerline where the luminous intensity is 1/2 the optical peak value.
 2. Drive current between 10mA and 30mA are recommended for long term performance.
 3. Operation at current below 10mA is not recommended.
 4. LEDs are binned according to their Luminous intensity.
- * Luminous intensity / luminous flux value and wavelength are in accordance with CIE127-2007 standards.



❖ **M2CYK**



Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)



- Notes:
1. Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C
 2. Peak wave soldering temperature between 245°C ~ 255°C for 3 sec (5 sec max).
 3. Do not apply stress to the epoxy resin while the temperature is above 85°C.
 4. Fixtures should not incur stress on the component when mounting and during soldering process.
 5. SAC 305 solder alloy is recommended.
 6. No more than one wave soldering pass.

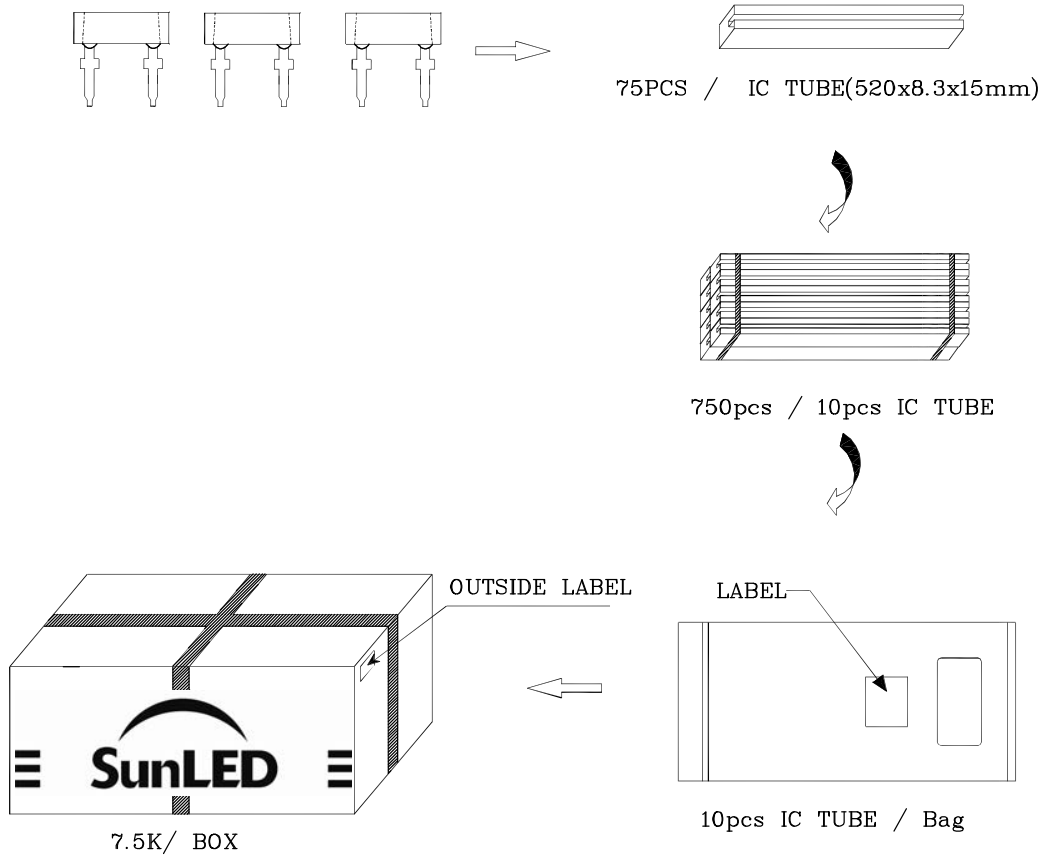
Remarks:


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



SunLED		Q.C. Q.C. XX XX XXXX PASSED
P/NO : XSxxx383x		
QTY : 750 pcs	CODE: XXX	
S/N : XX		
LOT NO:		
 XXXXXXXXXXXXXXXXXXXXXXXX		
RoHS Compliant		

TERMS OF USE

1. Data presented in this document reflect statistical figures and should be treated as technical reference only.
2. Contents within this document are subject to improvement and enhancement changes without notice.
3. The product(s) in this document are designed to be operated within the electrical and environmental specifications indicated on the datasheet. User accepts full risk and responsibility when operating the product(s) beyond their intended specifications.
4. The product(s) described in this document are intended for electronic applications in which a person's life is not reliant upon the LED. Please consult with a SunLED representative for special applications where the LED may have a direct impact on a person's life.
5. The contents within this document may not be altered without prior consent by SunLED.
6. Additional technical notes are available at <http://www.SunLEDusa.com/TechnicalNotes.asp>