

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[SunLED](#)
[XSM2CYK983W](#)

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



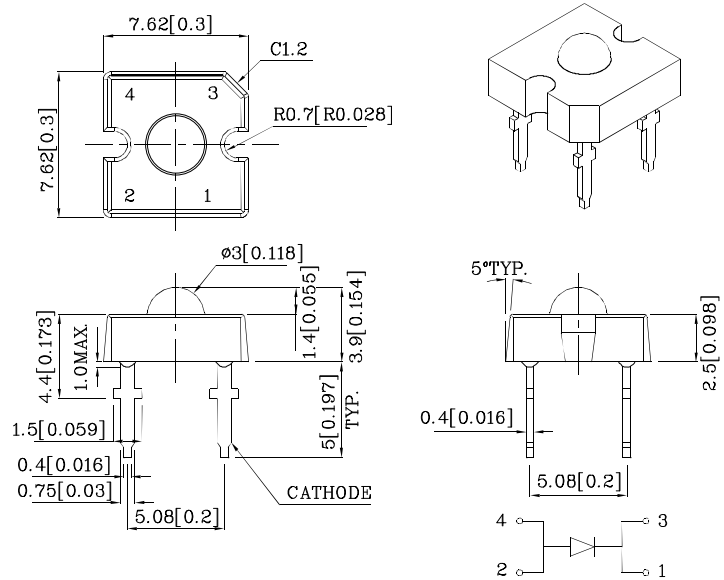
Benefits:

- Rugged design allows for easy maintenance
- Robust package for optimum reliability

Typical Applications:

- Automotive side markers
- Gaming and entertainment lighting
- Signs and road hazard indicators

Package Schematics



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

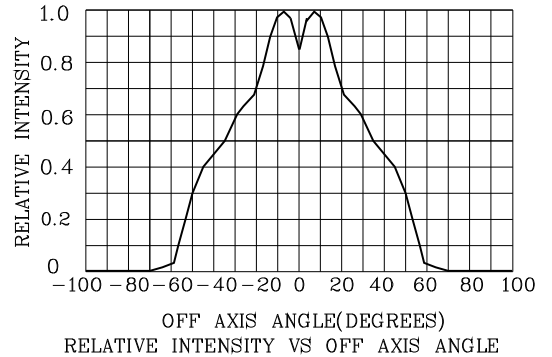
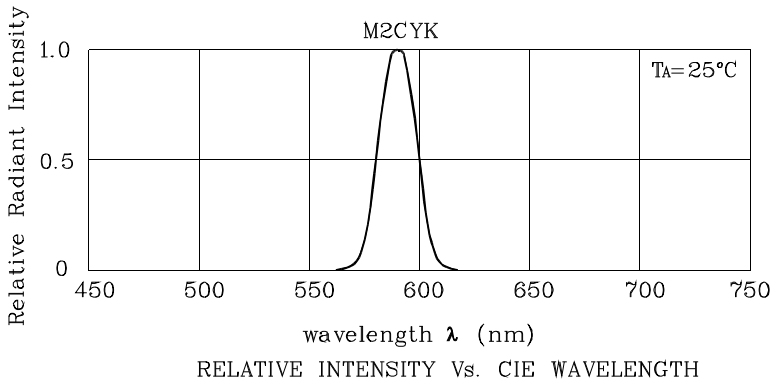
Absolute Maximum Ratings ($T_A=25^\circ\text{C}$)		M2CYK (AlGaInP)	Unit
Reverse Voltage	V_R	5	V
DC Forward Current	I_F	70	mA
Power Dissipation	P_D	210	mW
Operating Temperature	T_A	-40 ~ +85	°C
Storage Temperature	T_{stg}	-55 ~ +85	
Lead Solder Temperature [1.5mm Below Seating Plane.][1]		260°C For 5 Seconds	

1.No Reflow soldering .

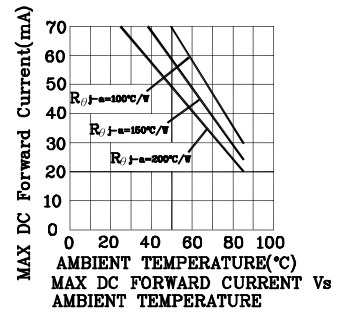
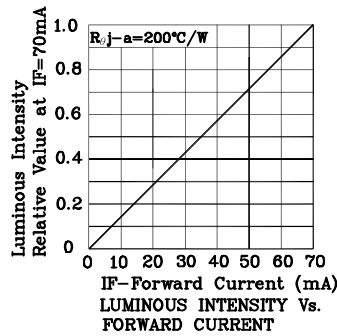
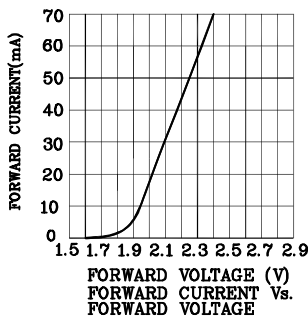
Operating Characteristics ($T_A=25^\circ\text{C}$)		M2CYK (AlGaInP)	Unit
Forward Voltage (Min.) ($I_F=70\text{mA}$)	V_F	2.2	V
Forward Voltage (Typ.) ($I_F=70\text{mA}$)	V_F	2.4	V
Forward Voltage (Max.) ($I_F=70\text{mA}$)	V_F	3.0	V
Reverse Current (Max.) ($V_R=5\text{V}$)	I_R	10	uA
Wavelength of Peak Emission CIE127-2007*(Typ.) ($I_F=70\text{mA}$)	λ_P	590*	nm
Wavelength of Dominant Emission CIE127-2007*(Typ.) ($I_F=70\text{mA}$)	λ_D	590*	nm
Spectral Line Full Width At Half Maximum (Typ.) ($I_F=70\text{mA}$)	$\Delta\lambda$	20	nm
Capacitance (Typ.) ($V_F=0\text{V}$, $f=1\text{MHz}$)	C	45	pF
Thermal Resistance (Typ.)	$R_{\theta j-pin}$	125	°C/W

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* ($I_F=70\text{mA}$) cd		Luminous Flux CIE127-2007* ($I_F=70\text{mA}$) lm	Wavelength CIE127-2007* λ_P nm	Viewing Angle 2θ 1/2
				min.	typ.	typ.		
XSM2CYK983W	Yellow	AlGaInP	Water Clear	3.1*	4.99*	5.3*	590*	70°

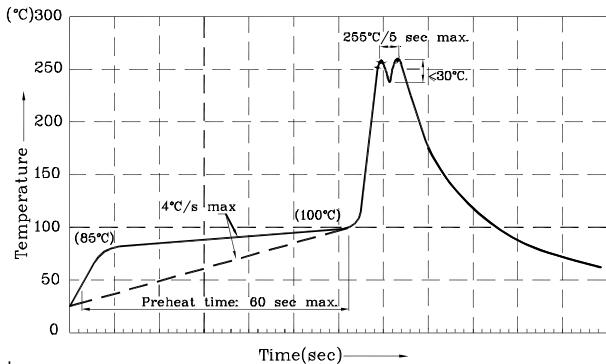
1.Luminous intensity is measured with an integrating sphere after the device has stabilized.
 2. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
 3.LEDs are binned according to their Luminous intensity.
 * Luminous intensity / luminous flux value 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:

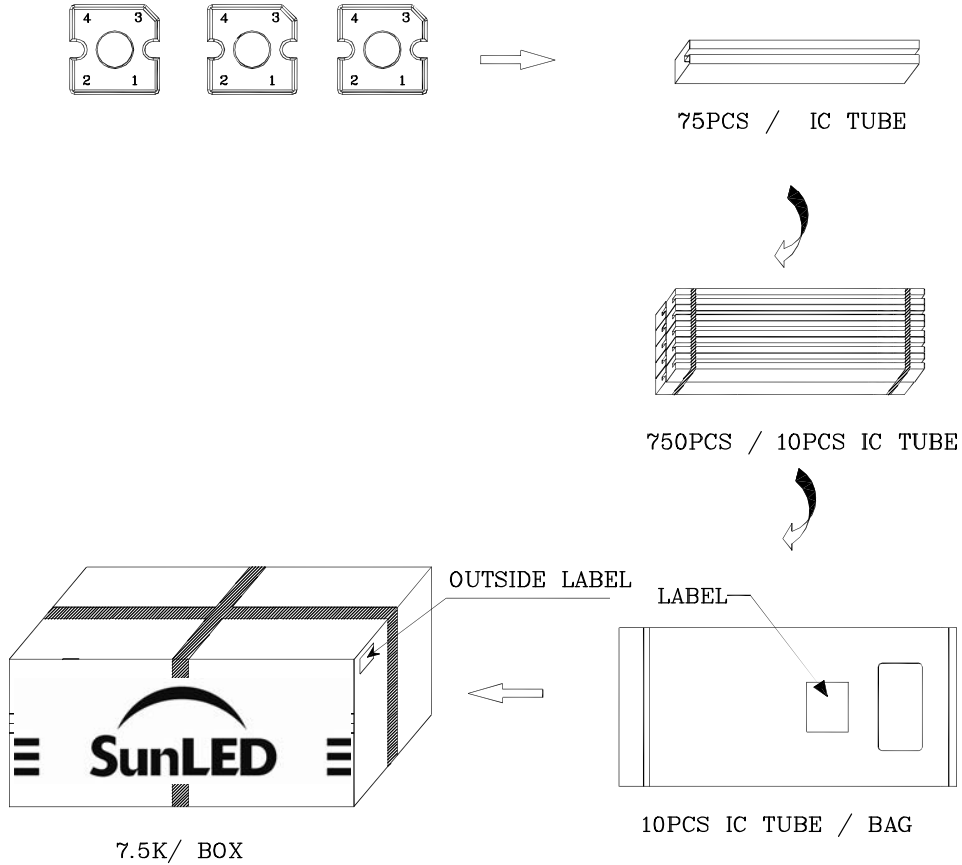
If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux, or wavelength),

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



P/NO : XSxxx983x	
QTY : 750 pcs	CODE: XXX
S/N : XX	
LOT NO:	
 XXXXXXXXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	

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2. Contents within this document are subject to improvement and enhancement changes without notice.
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