

5.0x5.0mm ICE CUBE LED



# **Features**

- $\bullet$  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.

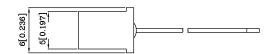


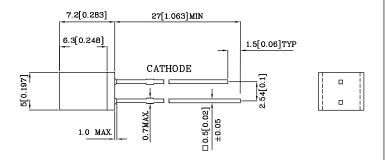


## Notes:

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

Absolute Maximum Rating (TA=25°C)	HR (GaP)	Unit			
Reverse Voltage	VR	5	V		
Forward Current	IF	25	mA		
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	130	mA		
Power Dissipation	PD	62.5	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 Characteristic (TA=25°C)	HR (GaP)	Unit	
Forward Voltage (Typ.) (IF=10mA)	VF	2.05	V
Forward Voltage (Max.) (IF=10mA)	VF	2.5	V
Reverse Current (Max.) (VR=5V)	IR	10	uA
Wavelength of Peak Emission (Typ.) (IF=10mA)	λΡ	700	nm
Wavelength of Dominant Emission (Typ.) (IF=10mA)	λ D	660	nm
Spectral Line Full Width At Half-Maximum (Typ.) (IF=10mA)	Δλ	45	nm
Capacitance (Typ.) (VF=0V, f=1MHz)	С	40	pF

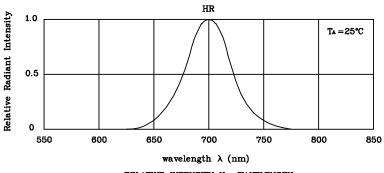
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=10mA) mcd		Wavelength nm λ P	Viewing Angle 2 0 1/2
				min.	typ.		
XSHR23MB	Red	GaP	White Triple Diffused	0.1	0.2	700	110°

Published Date: FEB 11,2010 Drawing No: XDSB4242 V1 Checked: B.L.LIU P.1/4



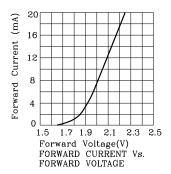
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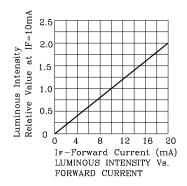


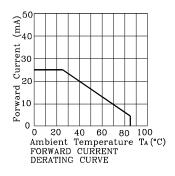


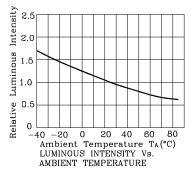
### RELATIVE INTENSITY Vs. WAVELENGTH

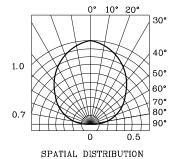
# **♦** HR







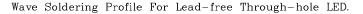


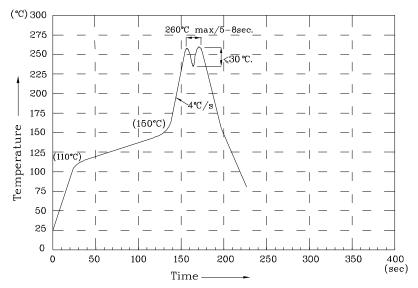


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### NOTES:

- 1.Recommend the wave temperature 245°C~260°C.The maximum soldering temperature should be less than 260°C.
- 2.Do not apply stress on epoxy resins when temperature is over 85 degree  $^{\circ}\text{C}.$
- 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.

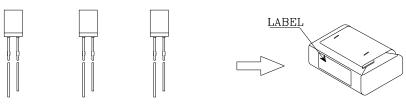
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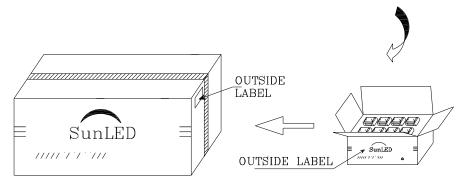
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## PACKING & LABEL SPECIFICATIONS

# XSHR23MB



1000 PCS/Bag



28K/BOX





P/NO:XSxxx23x

QTY: 1000 pcs

CODE: XXX

S/N : XX

LOT NO :



RoHS Compliant

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