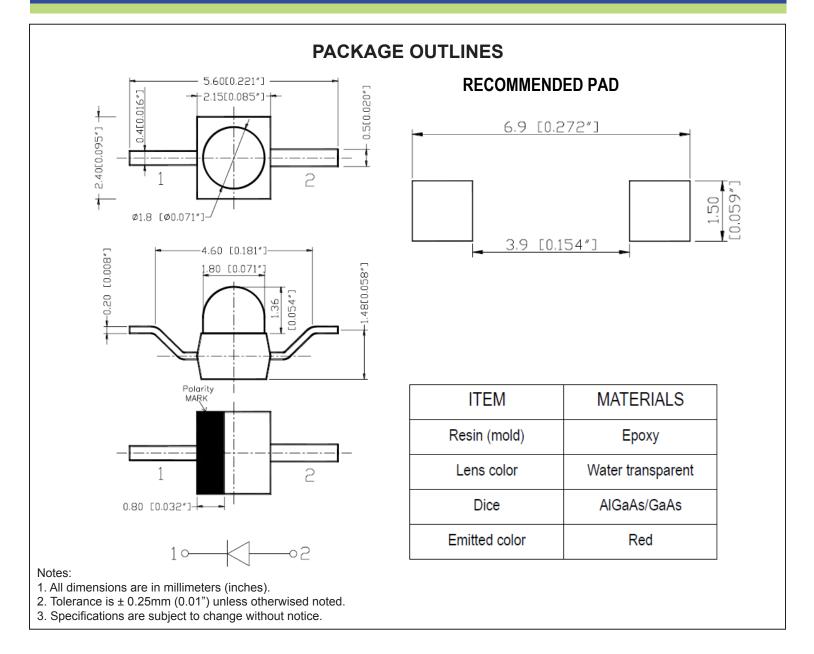


SPECIFICATION

CSM28RR1CZ



Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CSM28RR1CZ	AlGaAs	Red	Water Clear	20°



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ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Forward Current	lf	30	mA
Reverse Current @ 5V	lr	10	μΑ
Power Dissipation	Pd	69	mW
Operating Temperature Range	Тор	-40~+80	°C
Storage Temperature Range	Тѕтс	-40~+85	°C
Peak Pulsing Current (1/10 duty f = 10KHz)	IFP	125	mA
Soldering Temperature	Tsol	Max 260°C for 5 sec Max	

OPTICAL-ELECTRICAL CHARACTERISTICS

Value **Test Condition** Parameter Symbol Unit Min Тур Max 400 700 Luminous Intensity Iv $I_F = 20 \text{mA}$ mcd _ Forward Voltage I⊧ = 20mA 1.8 2.3 V VF _ Reverse Leakage Current $V_R = 5V$ μA IR 10 _ _ Viewing Angle at 50% Iv $2\theta 1/2$ IF = 20mA 20 _ Deg _ Peak Wavelength IF = 20mA 660 λP _ nm _ **Dominant Wavelength** IF = 20mA 640 λD _ _ nm

*Tolerance of viewing angle: -10 / +5 deg.



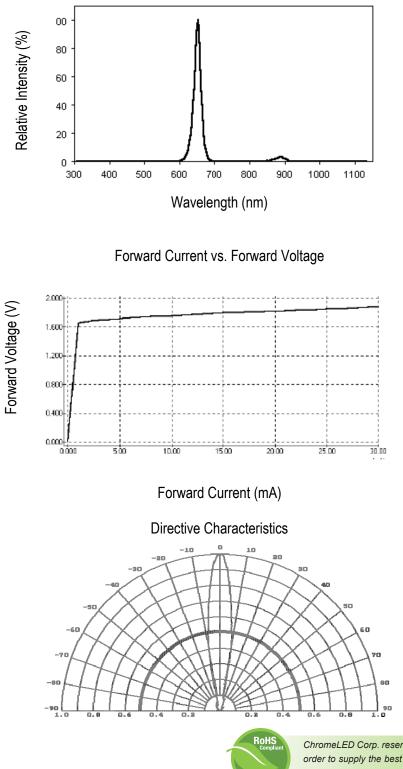
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(TA=25°C)



OPTICAL CHARACTERISTIC CURVES

Relative Intensity vs. Wavelength



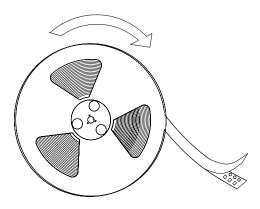
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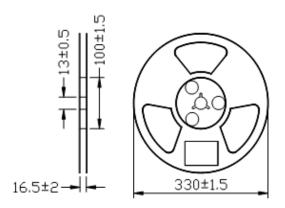


PACKAGING SPECIFICATION

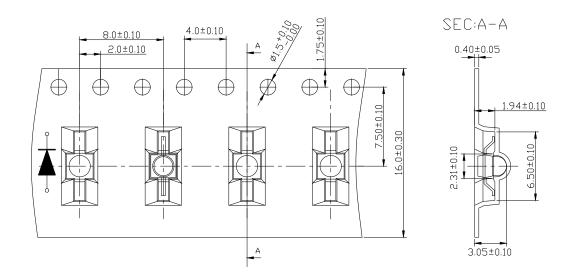
• Feeding Direction



• Dimensions of Reel (Unit: mm)



Dimensions of Tape (Unit: mm)



Notes:

- 1. Empty component pockets are sealed with top cover tape
- 2. The Maximum number of missing lamps is two
- 3. The cathode is oriented towards the tape sprocket hole.
- 4. 2500 pc/reel

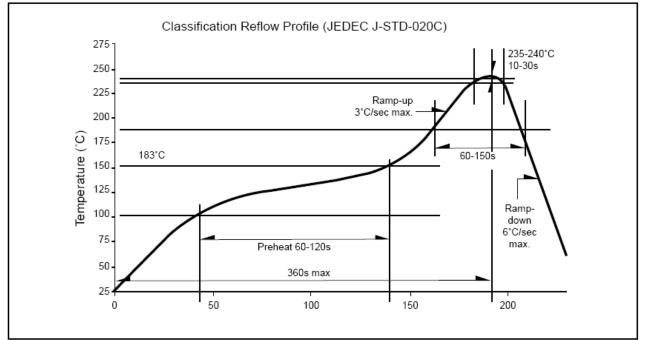


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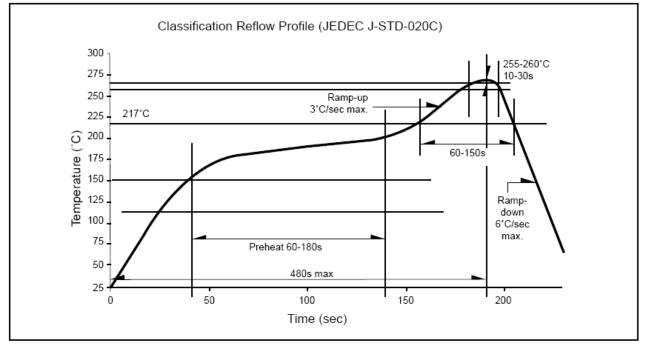


SOLDERING CONDITIONS

RECOMMENDED Sn-PB IR-Reflow Soldering Profile



RECOMMENDED Pb-Free Soldering Profile





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