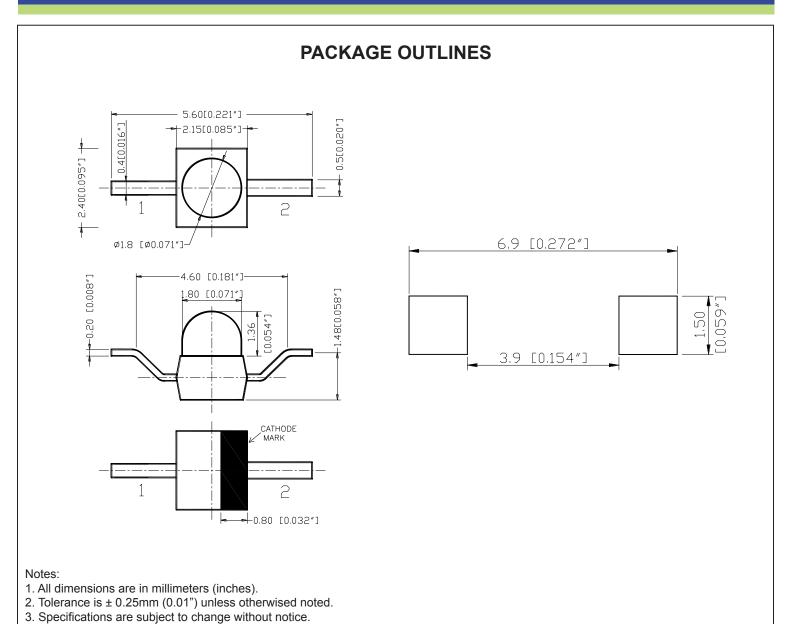


SPECIFICATION CSM28R2CZ



Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle	
CSM28R2CZ	InGaAlP	Red	Water Clear	20°	



ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com



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	75	mW	
Operating Temperature Range	Тор	-40~+80	°C	
Storage Temperature Range	Тѕтс	-40~+85	°C	
Peak Pulsing Current (1/10 duty f = 10KHz)	lfp	125	mA	
Soldering Temperature	TsoL	Max 260°C for 5 sec Max		

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

Darameter	Symbol	Toot Condition	Value			Lloit
Parameter		Test Condition	Min	Тур	Max	Unit
Luminous Intensity	lv	IF = 20mA	800	1500	-	mcd
Forward Voltage	VF	IF = 20mA	1	2.0	2.5	V
Reverse Leakage Current	lR	V _R = 5V	-	-	10	μΑ
Viewing Angle at 50% Iv	201/2	IF = 20mA	ı	15	-	Deg
Peak Wavelength	λ P	IF = 20mA	1	635	-	nm
Dominant Wavelength	λ D	IF = 20mA	-	630	-	nm

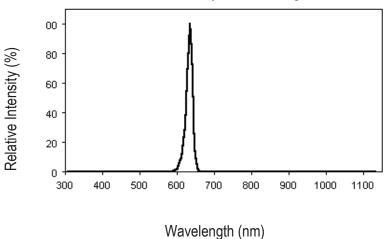
^{*}Tolerance of viewing angle: -10 / +5 deg.



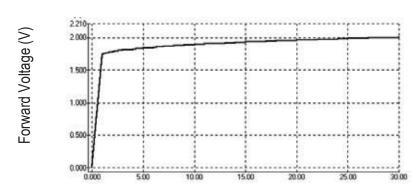
ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com

OPTICAL CHARACTERISTIC CURVES

Relative Intensity vs. Wavelength

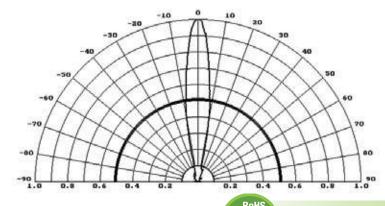


Forward Current vs. Forward Voltage



Forward Current (mA)

Directive Characteristics

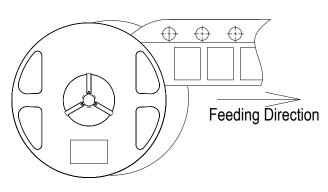


ChromeLED Corp. reserves the right to make changes at any tine in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com

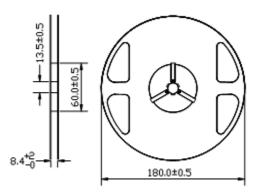


PACKAGING SPECIFICATION

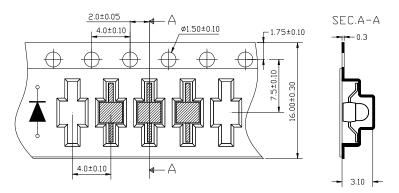
Feeding Direction



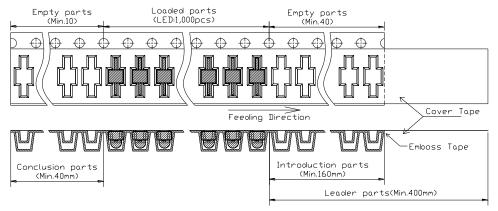
Dimensions of Reel (Unit: mm)



Dimensions of Tape (Unit: mm)



Arrangement of Tape



Notes:

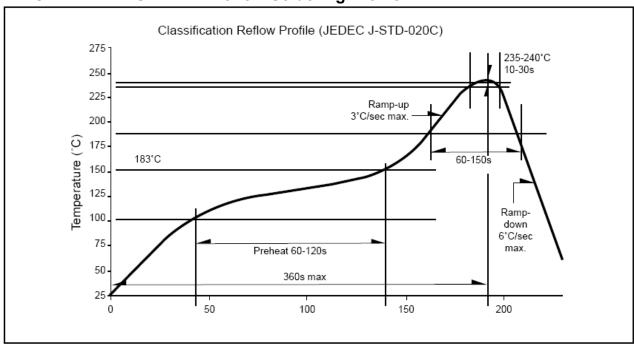
- 1. Empty component pockets are sealed with top cover tape
- 2. The Maximum number of missing lamps is two
- 3. The cathode is oriented towards the tape sprocket hole.
- 4. 1000 pc/reel



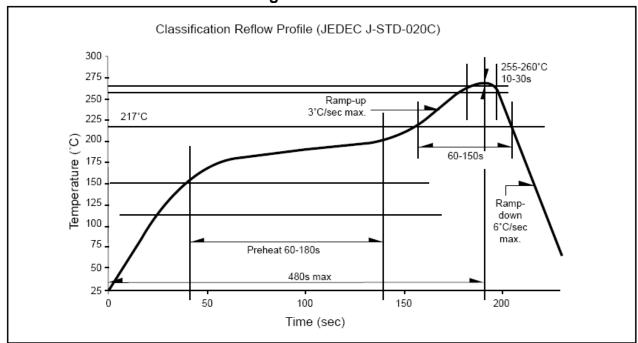


SOLDERING CONDITIONS

RECOMMENDED Sn-PB IR-Reflow Soldering Profile



RECOMMENDED Pb-Free Soldering Profile





ChromeLED Corp. reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.chromeled.com