

SPECIFICATION CSM28R2CZ-1RP

PACKAGE OUTLINES 6.1±0.1--2.1±0.1-₫•••• Polarity Cathode 4.9±0.1 Top PCB -8.1±0.1 •-2.01±0.1-• -1.88±0.1 1.76±0.1 Recommend Sodering Pad 6,6±0,2-5.6±0.1 4.6±0.1 Φ 0 1.94±D.1+ Φ.B±D. 0.47±0.1 0.74±0.1 Side

Notes:

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

Part Number Chip Material		Color of Emission	Lens Type	Viewing Angle	
CSM28R2CZ-1RP	InGaAIP	Red	Water Clear	25°	



Hale #3.2±0.1

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ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating	Unit	
Forward Current	lF	20	mA	
Reverse Current @ 5V	lr	10	μΑ	
Power Dissipation	Pd	60	mW	
Operating Temperature Range	Тор	-40~+85	°C	
Storage Temperature Range	Тѕтс	-40~+90	°C	
Peak Pulsing Current (1/10 duty f = 10KHz)	lfP	60	mA	
Soldering Temperature	TsoL	Max 260°C for 10 sec Max		

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

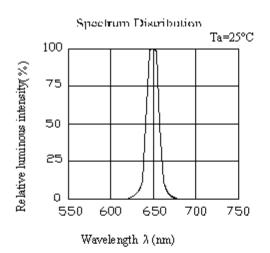
Darameter	Symbol	Toot Condition	Value			Lloit
Parameter		Test Condition	Min	Тур	Max	Unit
Luminous Intensity	lv	IF = 20mA	661	992	-	mcd
Forward Voltage	VF	IF = 20mA	1	2.0	2.4	V
Reverse Leakage Current	lr	V _R = 5V	-	-	10	μΑ
Viewing Angle at 50% Iv	201/2	IF = 20mA	-	25	-	Deg
Peak Wavelength	λ P	IF = 20mA	-	650	-	nm
Dominant Wavelength	λD	IF = 20mA	-	639	-	nm

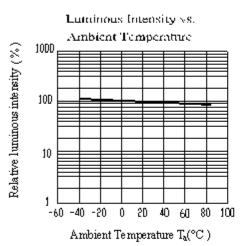
^{*}Tolerance of viewing angle: -10 / +5 deg.

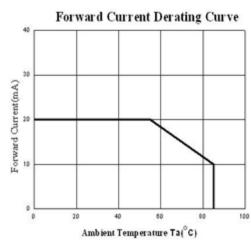


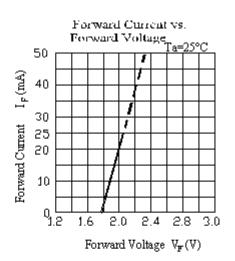
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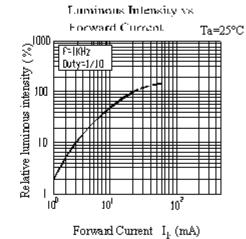
OPTICAL CHARACTERISTIC CURVES

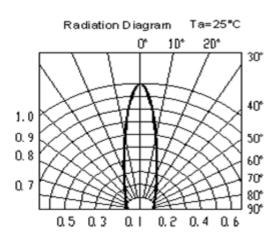












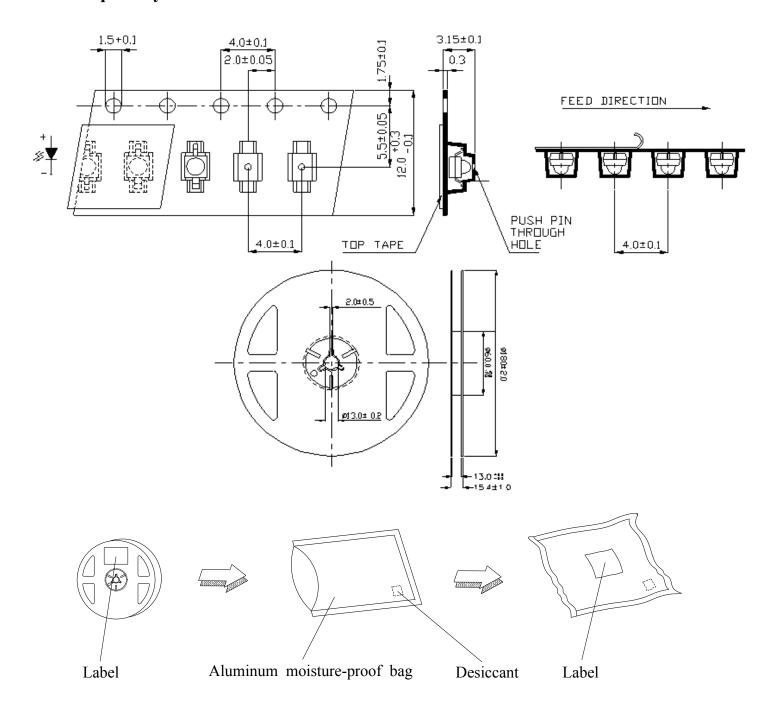


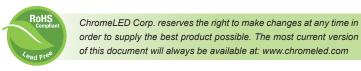
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PACKAGING SPECIFICATION

Loaded quantity 1000 PCS/reel







SOLDERING CONDITIONS

Precautions For Use

1. Over-current-proof

Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen).

- 2. Storage
- 2.1 Do not open moisture proof bag before the products are ready to use.
- 2.2 Before opening the package: The LEDs should be kept at 30° C or less and 90° RH or less.
- 2.3 After opening the package: The LED's floor life is 72 hours under 30℃ or less and 60% RH or less.

 If unused LEDs remain, it should be stored in moisture proof packages.
- 2.4 If the moisture absorbent material (silica gel) has faded away or the LEDs have exceeded the storage time, baking treatment should be performed using the following conditions.

Baking treatment : 60±5°C for 24 hours.

- 3. Soldering Condition
- 3.1 Pb-free solder temperature profile

