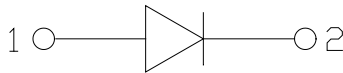
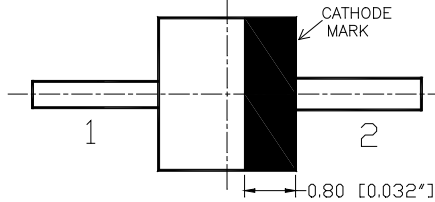
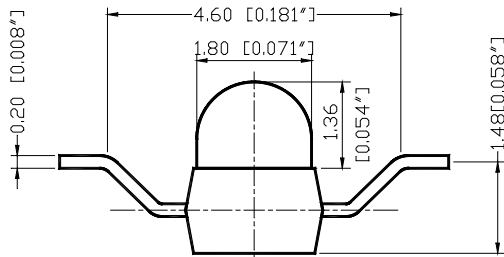
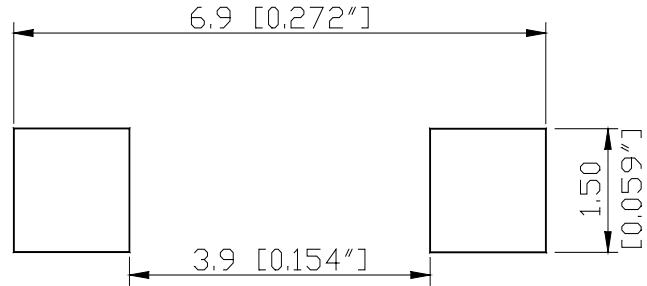
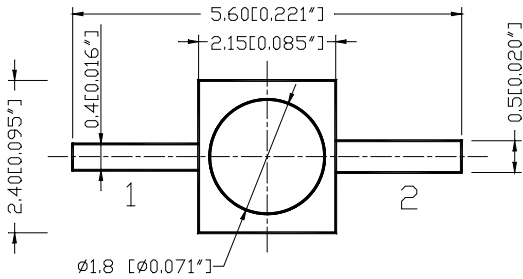


**SPECIFICATION**
**CSM28GT2CZ**
**PACKAGE OUTLINES**


ITEM	MATERIALS
Resin (mold)	Epoxy
Lens color	Water transparent
Dice	InGaN
Emitted color	Pure Green

**Notes:**

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

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CSM28GT2CZ	InGaN	Green	Water Clear	20°



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**ABSOLUTE MAXIMUM RATINGS**
**(TA=25°C)**

Parameter	Symbol	Max Rating	Unit
Forward Current	IF	30	mA
Reverse Current @ 5V	IR	10	μA
Power Dissipation	Pd	111	mW
Operating Temperature Range	TOP	-40~+85	°C
Storage Temperature Range	TSTG	-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**
**(TA=25°C)**

Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	Iv	IF = 20mA	-	8300	-	mcd
Forward Voltage	VF	IF = 20mA	2.8	3.2	-	V
Reverse Leakage Current	IR	VR = 5V	-	-	10	μA
Viewing Angle at 50% Iv	2θ1/2	IF = 20mA	-	20	-	Deg
Peak Wavelength	λP	IF = 20mA	-	520	-	nm
Dominant Wavelength	λD	IF = 20mA	520	525	530	nm

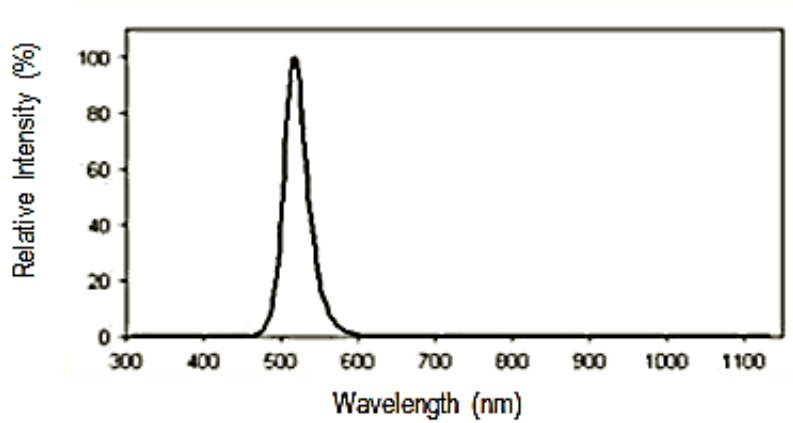
\*Tolerance of viewing angle: -10 / +5 deg.



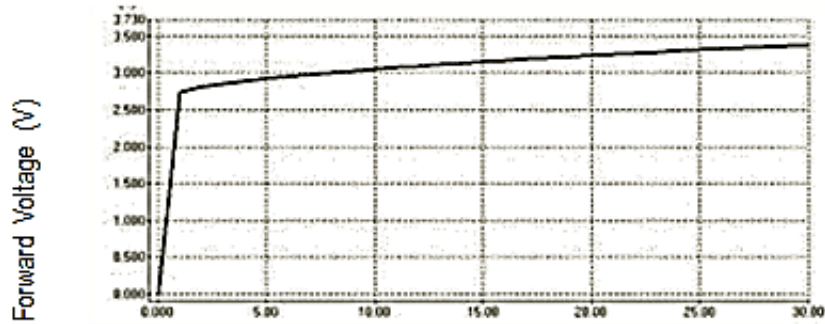
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**OPTICAL CHARACTERISTIC CURVES**

Relative Intensity vs. Wavelength

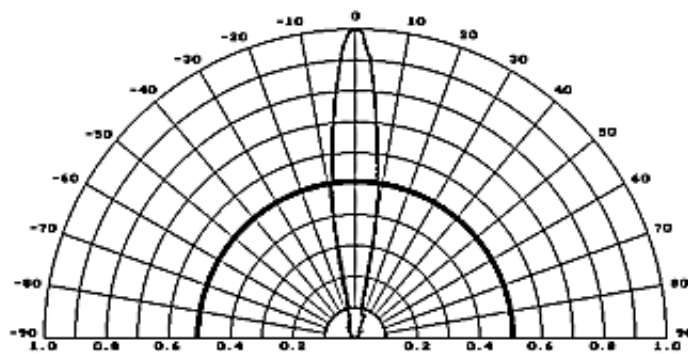


Forward Current vs. Forward Voltage

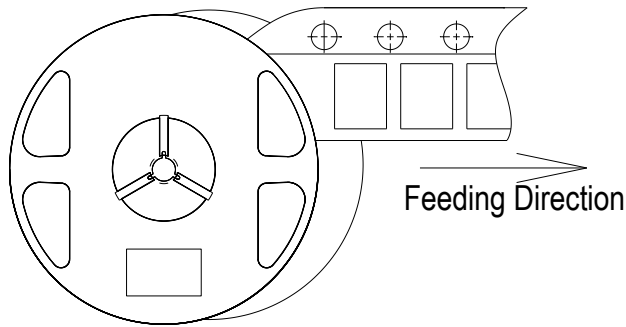
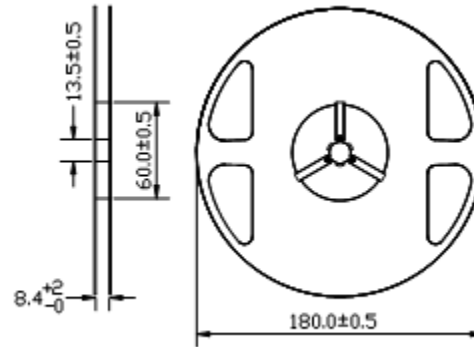
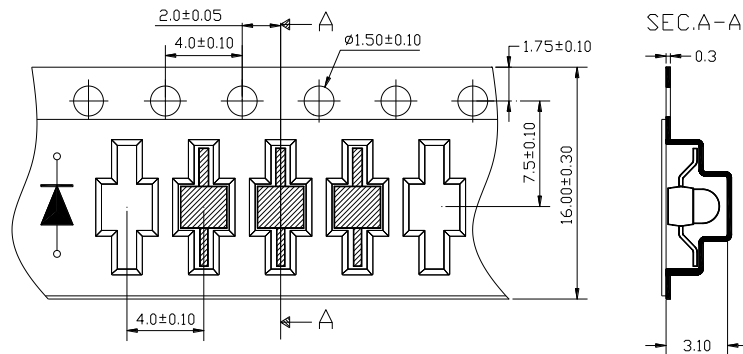
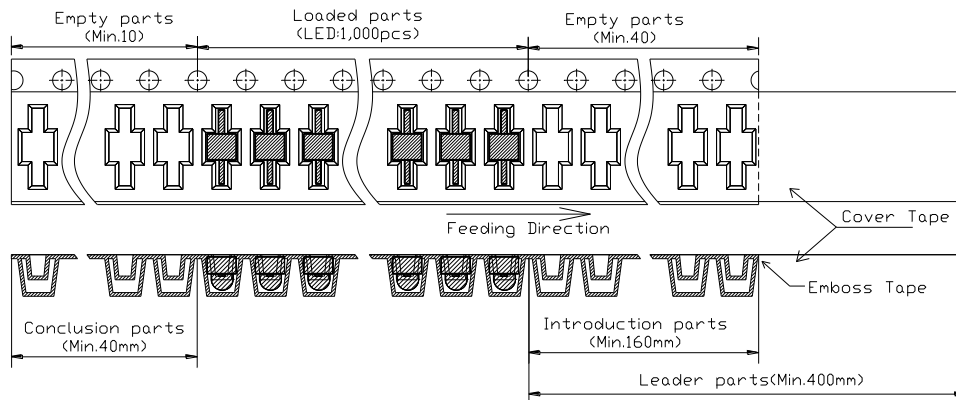


Forward Current (mA)

Directive Characteristics



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**PACKAGING SPECIFICATION**
**● Feeding Direction**

**● Dimensions of Reel (Unit: mm)**

**● Dimensions of Tape (Unit: mm)**

**● Arrangement of Tape**

**Notes:**

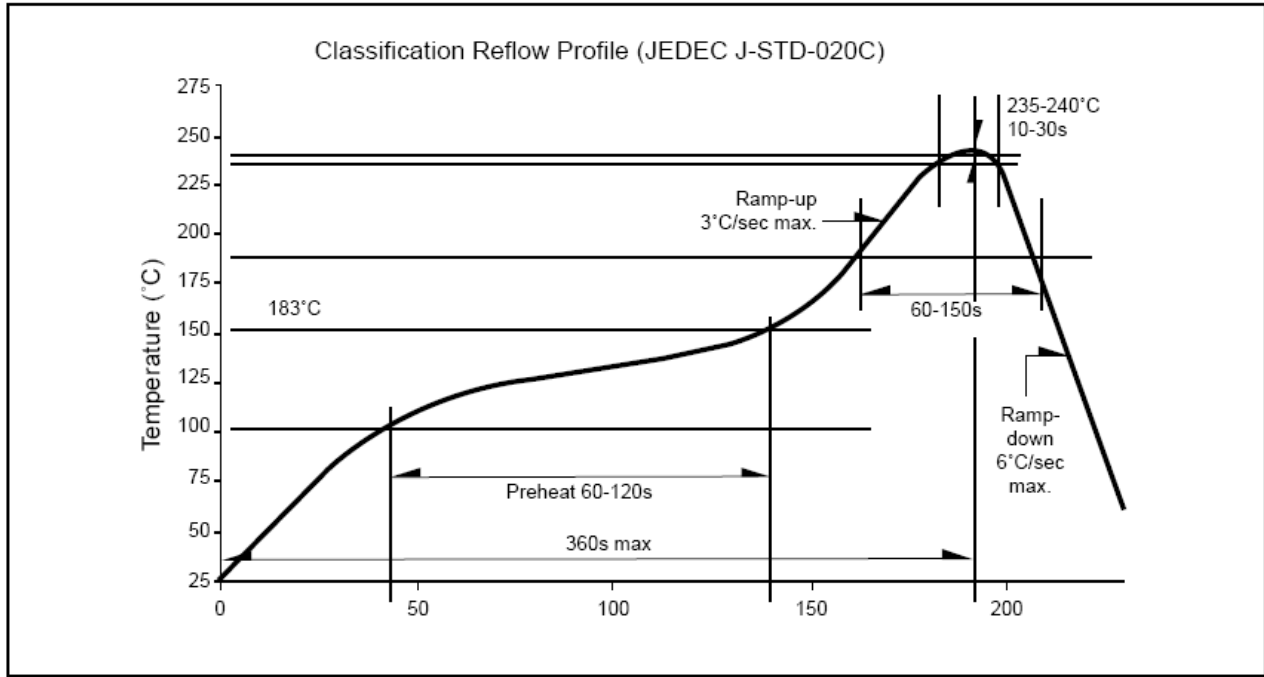
1. Empty component pockets are sealed with top cover tape
2. The Maximum number of missing lamps is two
3. The cathode is oriented towards the tape sprocket hole.
4. 1000 pc/reel



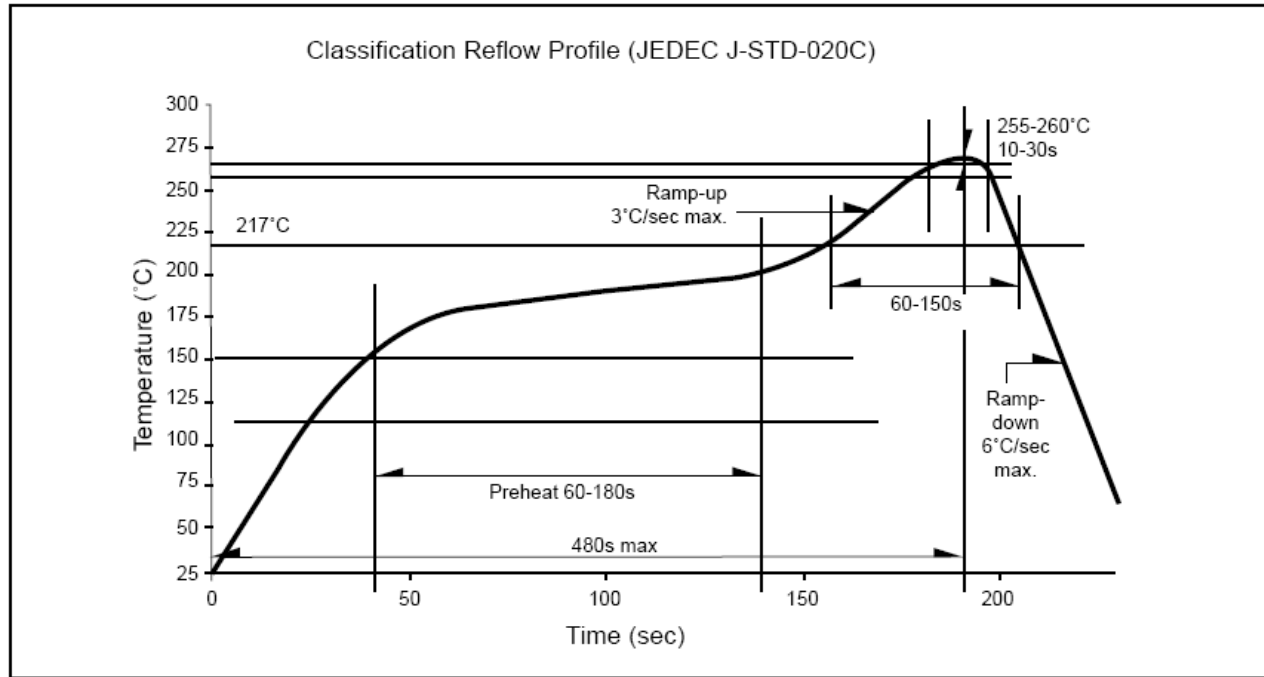
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# SOLDERING CONDITIONS

## RECOMMENDED Sn-PB IR-Reflow Soldering Profile



## RECOMMENDED Pb-Free Soldering Profile



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