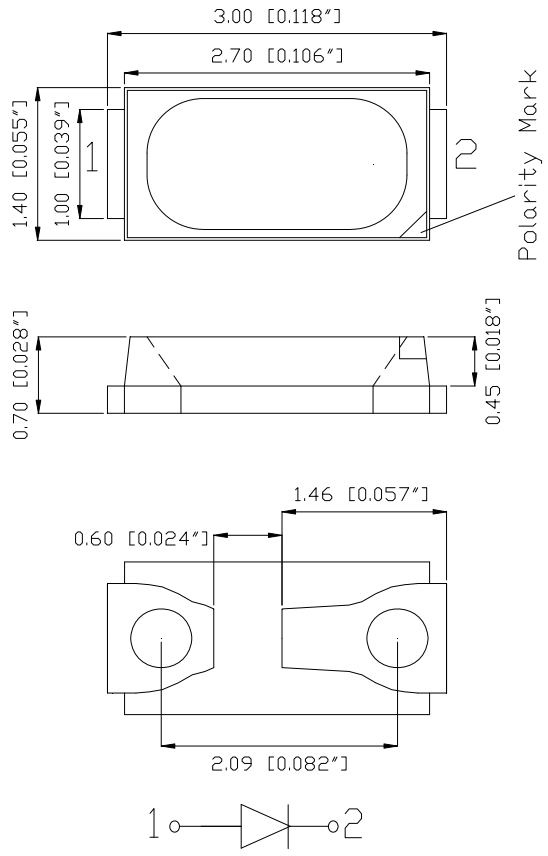
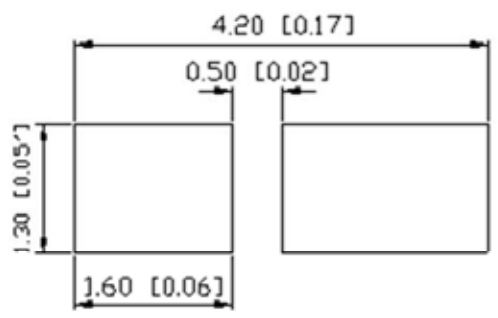


SPECIFICATION **CSP125G2C**

PACKAGE OUTLINES



RECOMMENDED PAD LAYOUT



ITEM	MATERIALS
Resin (mold)	Silicon
Lens color	Water Transparent
Dice	AlGaInP/GaAs
Emitted Color	Yellow-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
CSP125G2C	InGaN	Green	Water Clear	120°



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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
Operating Temperature Range	TOP	-40~+80	°C
Storage Temperature Range	TSTG	-40~+85	°C
Peak Pulsing Current (1/8 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	32	56	-	Mcd
Forward Voltage	VF	IF = 20mA	-	2.0	2.5	V
Reverse Leakage Current	IR	VR = 5V	-	-	10	μA
Viewing Angle at 50% Iv	2θ1/2	IF = 10mA	-	120	-	Deg
Dominant Wavelength	λD	IF = 20mA	565	573	576	nm
Peak Wavelength	λP	IF = 20mA	-	575	-	nm

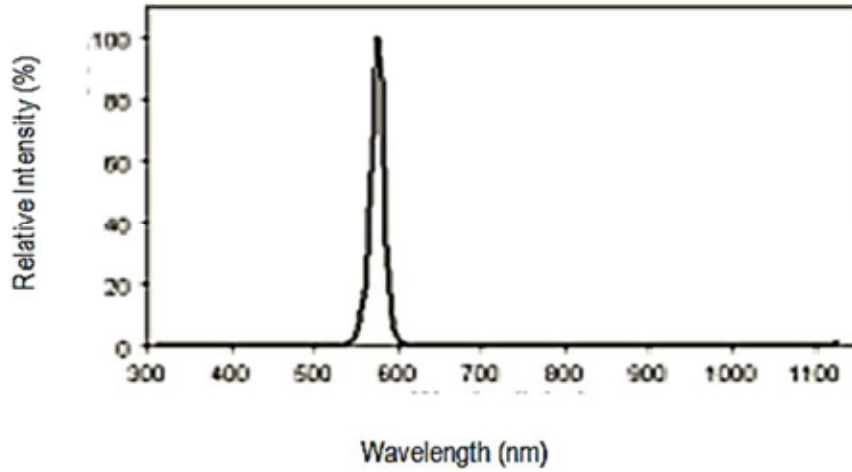
*Tolerance of viewing angle: -10 / +5 deg.



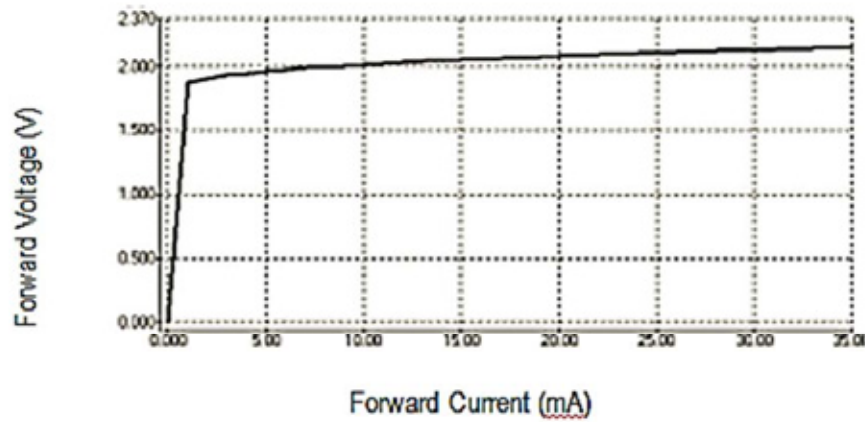
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OPTICAL CHARACTERISTIC CURVES

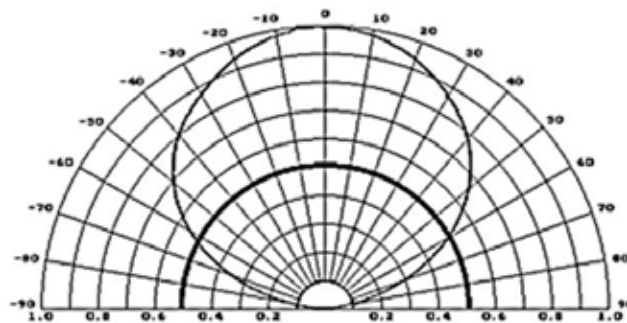
Relative Intensity vs. Wavelength



Forward Current vs. Forward Voltage



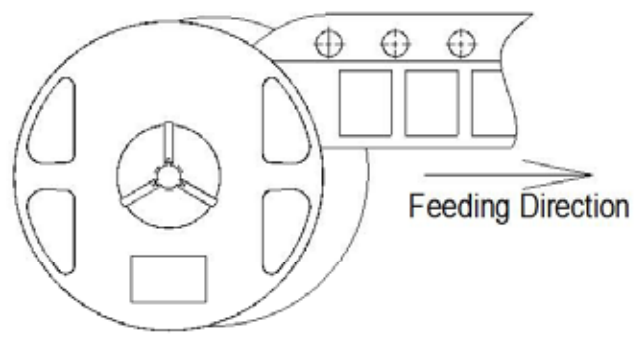
Directive Characteristics



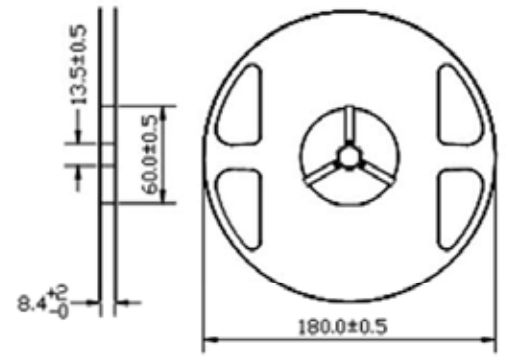
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PACKAGING SPECIFICATION

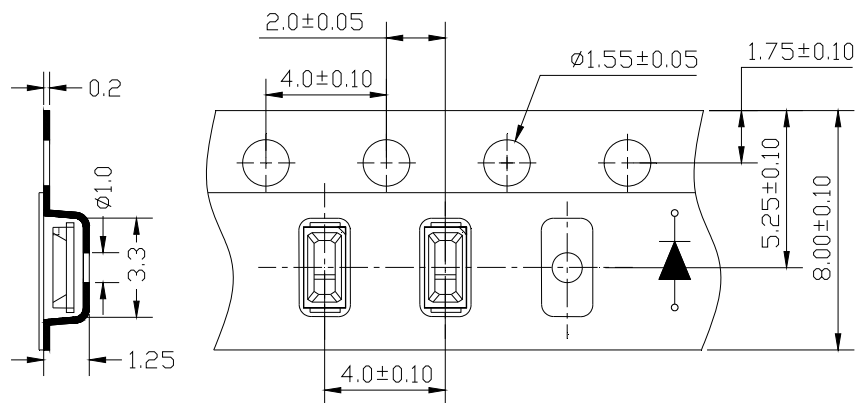
Feeding Direction



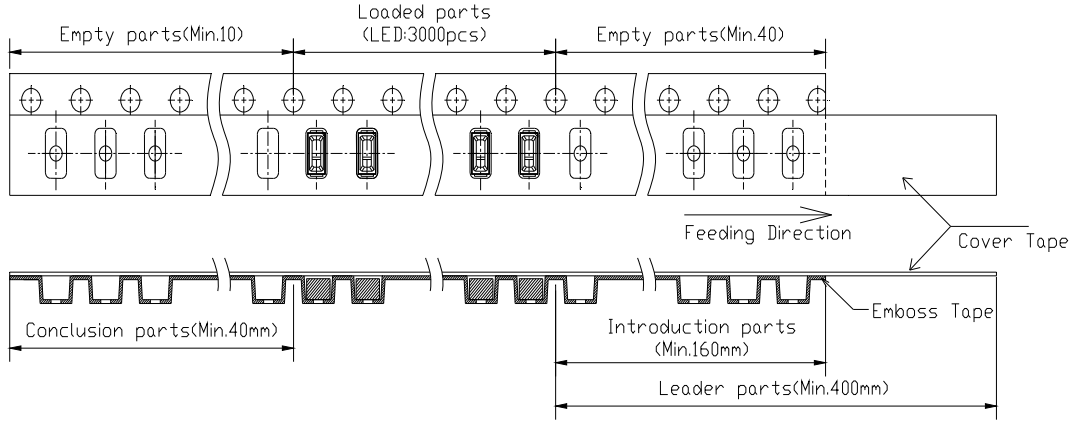

Dimensions of Reel (Unit: mm)



Dimensions of Tape (Unit: mm)



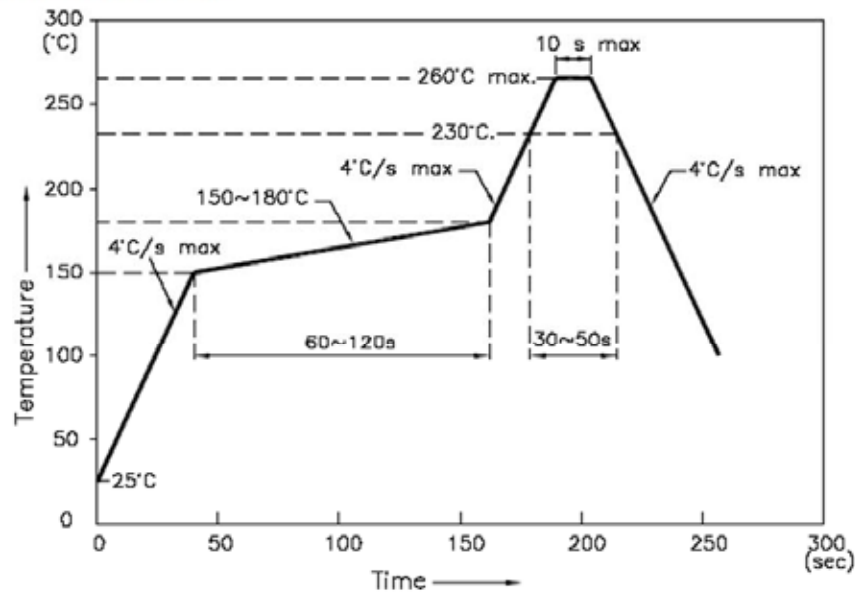
Arrangement of Tape

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SOLDERING CONDITIONS

REFLOW TEMP/TIME PROFILE



Notes:

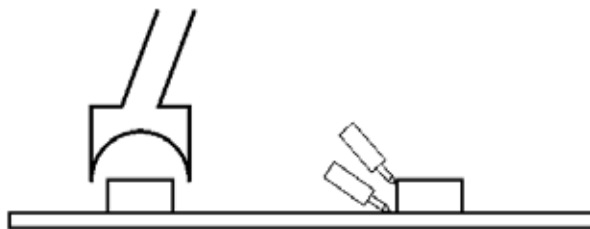
1. We recommend the reflow temperature 245°C ($\pm 5^\circ\text{C}$). The maximum soldering temperature should be limited to 260°C.
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. Number of reflow process should be 2 times or less.

• Soldering Iron

Basic spec is ≤ 5 sec when 260°C. If temperature is higher, time should be shorter ($+10^\circ\text{C} \rightarrow -1$ sec). Power dissipation of iron should be smaller than 20W and temperature should be controllable. Surface temperature of the device should be under 230°C.

• Rework

1. Customer must finish rework within 5 sec under 260°C.
2. The head of iron cannot touch copper foil.
3. Twin-head type is pref



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