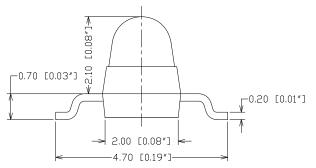
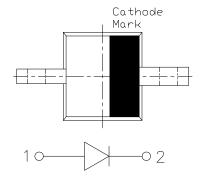


SPECIFICATION CSM28IR880CG





_	5.5 [0.22"]		
	3.2 [0.13"]	-	0.6

ITEM	MATERIALS		
Resin (mold)	Ероху		
Bonding Wire	Ø 25 μm Au		
Lens color	Water transparent		
Dice	AlGaAs		
Emitted color	Infrared		

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
CSM28IR880CG	AlGaAs/GaAs	Infrared	Water Clear	20°





ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating	Unit	
Forward Current	lF	50	mA	
Reverse Current @ 5V	lR	5	μΑ	
Power Dissipation	Pd	95	mW	
Operating Temperature Range	Тор	-40~+80	°C	
Storage Temperature Range	Тѕтс	-40~+85	°C	
Peak Pulsing Current (1/10 duty f = 10KHz)	lFP	1	А	
Soldering Temperature	TsoL	Max 260°C for 5 sec Max		

OPTICAL-ELECTRICAL CHARACTERISTICS

 $(TA=25^{\circ}C)$

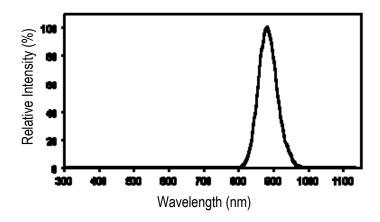
Parameter	Symbol	Test Condition	Value			Lloit
			Min	Тур	Max	Unit
Luminous Intensity	lv	IF = 20mA	1	1.8	-	mW/sr
Forward Voltage	VF	IF = 20mA	1	1.4	1.8	V
Reverse Leakage Current	lR	VR = 5V	-	-	10	μΑ
Viewing Angle at 50% Iv	201/2	IF = 20mA	-	20	-	Deg
Peak Wavelength	λР	IF = 20mA	-	880	-	nm

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

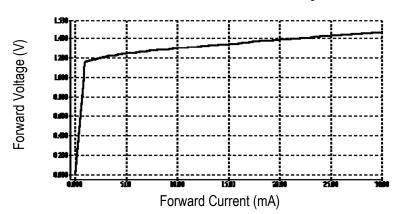


OPTICAL CHARACTERISTIC CURVES

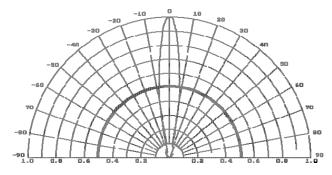
Relative Intensity vs. Wavelength



Forward Current vs. Forward Voltage



Directive Characteristics

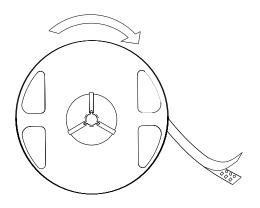




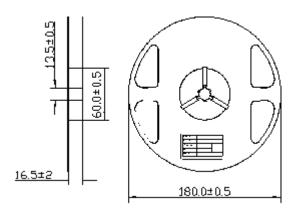


PACKAGING SPECIFICATION

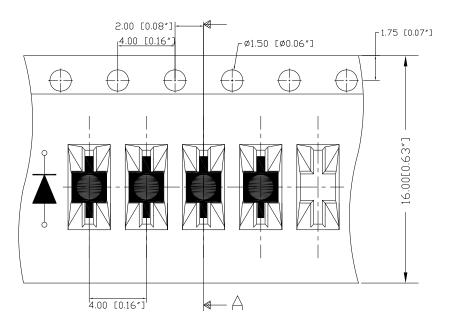
• Feeding Direction

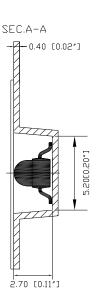


Dimensions of Reel (Unit: mm)



• Dimensions of Tape (Unit: mm)

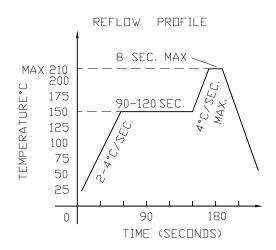








SOLDERING CONDITIONS



NOTES:

- 1. We recommend the reflow temperature 245°C (±5°C).the maximum soldering temperature should be limited to 260°C.
- 2. dont cause stress to the epoxy resin while it is exposed to high temperature.
- 3. Number of reflow process shall be 2 times or less.
 - Soldering iron
 - Basic spec is \leq 5sec when 260°C. If temperature is higher, time should be shorter
 - (+10°C → -1sec). Power dissipation of iron should be smaller than 20W, and temperatures 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 preferred.

