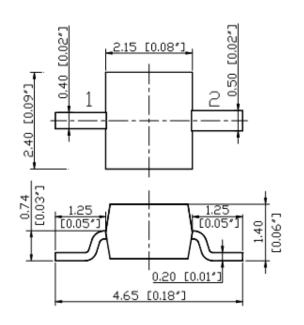
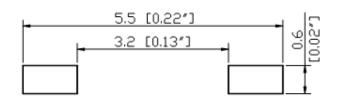


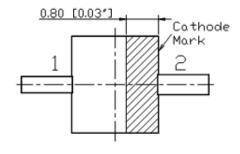
SPECIFICATION CSM28Y2CGF

PACKAGE OUTLINES









Item	Materials	
Resin (mold)	Ероху	
Lens Color	Water Transparent	
Dice	GaAsP	
Emitted Color	Yellow	

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
CSM28Y2CGF	GaAsP	Yellow	Water Clear	150°





ABSOLUTE MAXIMUM RATINGS

(TA=25°C)

Parameter	Symbol	Max Rating	Unit	
Forward Current	lF	30	mA	
Reverse Current @ 5V	IR	IR 10		
Power Dissipation	Pd	78	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	r 5 sec Max	

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

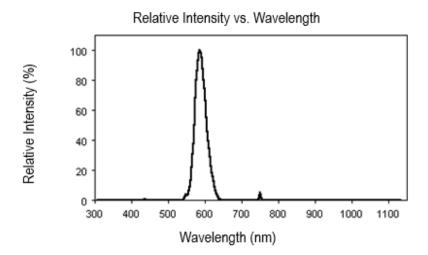
Parameter	Symbol	Test Condition	Value			l lait
			Min	Тур	Max	Unit
Luminous Intensity	lv	IF = 20mA	3	8	-	mcd
Forward Voltage	VF	IF = 20mA	1	2.1	2.5	V
Reverse Leakage Current	lr	V _R = 5V	-	-	10	μΑ
Viewing Angle at 50% Iv	201/2	IF = 10mA	1	150	ı	Deg
Peak Wavelength	λ P	IF = 20mA	-	587	-	nm
Dominant Wavelength	λ D	IF = 20mA	585	570	595	nm

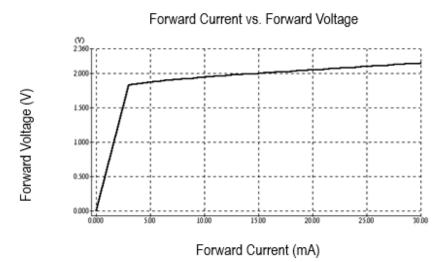
^{*}Tolerance of viewing angle: -10 / +5 deg.



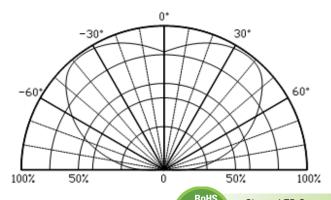


OPTICAL CHARACTERISTIC CURVES





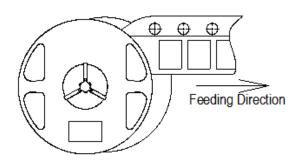
Directive Characteristics



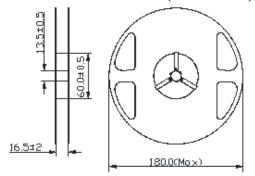


PACKAGING SPECIFICATION

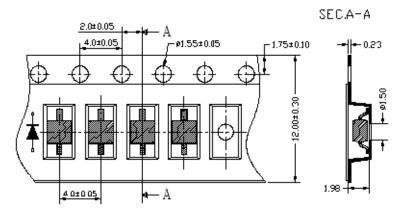
• Feeding Direction



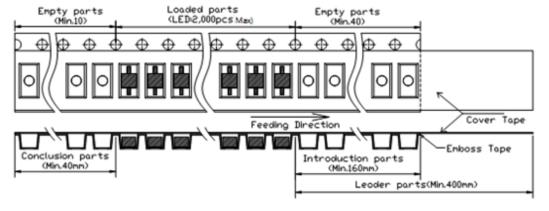
Dimensions of Reel(Unit: mm)



• 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. 2,000 (Max)pcs/Reel

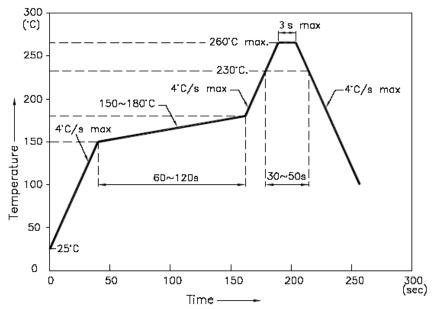




SOLDERING CONDITIONS

REFLOW PROFILE

Reflow Temp/Time



Notes:

- 1. We recommend the reflow temperature 245°C (±5°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 ($\pm 10^{\circ}\text{C} \rightarrow -1\text{sec}$). Power dissipation of iron should be smaller than 20W and temperature should be controllable. Surface temperature of the device should be under 230°C.