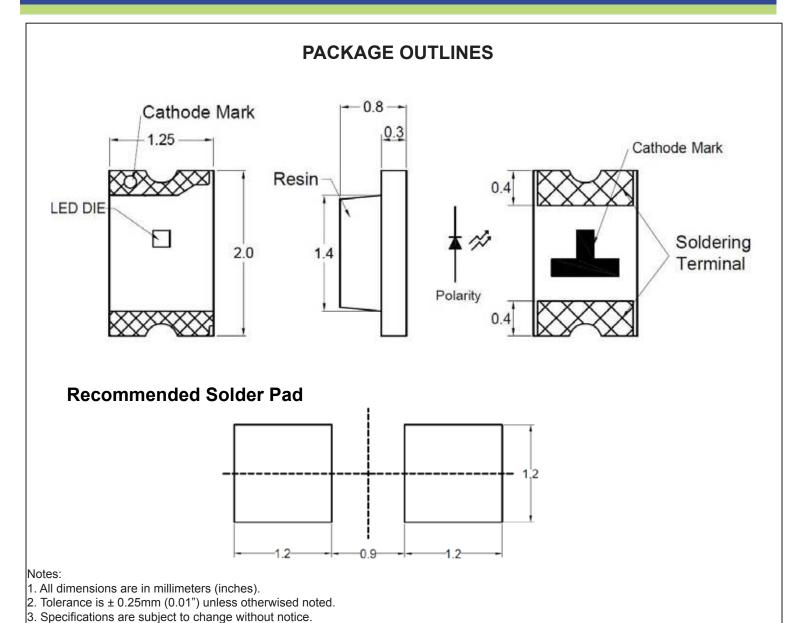


SPECIFICATION CS85BIR850C



Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CS85BIR850C	GaAlAs	Infrared	Water Clear	140°





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	100	mW	
Operating Temperature Range	Тор	-40~+85	°C	
Storage Temperature Range	Тѕтс	-40~+85	°C	
Peak Pulsing Current (1/10 duty f = 10KHz)	IFP	1	А	
Soldering Temperature	Tsol	Max 260°C for 5 sec Max		

OPTICAL-ELECTRICAL CHARACTERISTICS

(TA=25°C)

Parameter	Symbol	Test Condition	Value			Unit
Parameter			Min	Тур	Max	Unit
Radiant Intensity	lv	IF = 50mA	3.2	6.0	-	mW/sr
Forward Voltage	VF	IF = 50mA	1	1.7	1.9	V
Reverse Leakage Current	lr	V _R = 5V	-	-	100	μΑ
Viewing Angle at 50% Iv	201/2	IF = 50mA	ı	140	-	Deg
Peak Wavelength	λ P	IF = 50mA	-	850	_	nm
Dominant Wavelength	λ D	IF = 50mA	-	860	-	nm

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





OPTICAL CHARACTERISTIC CURVES

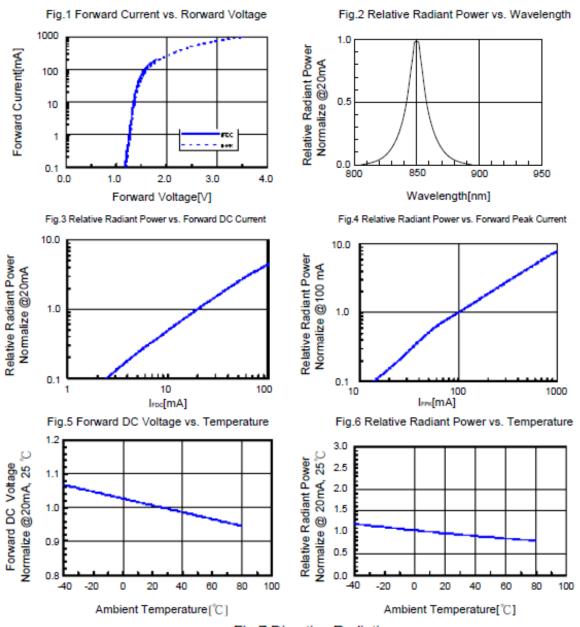


Fig.7 Directive Radiation

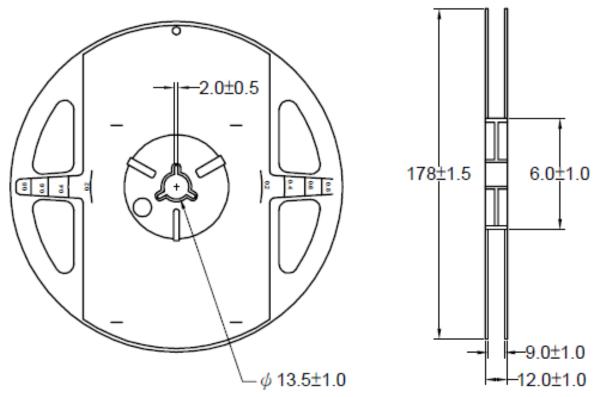


RoHS Compliant

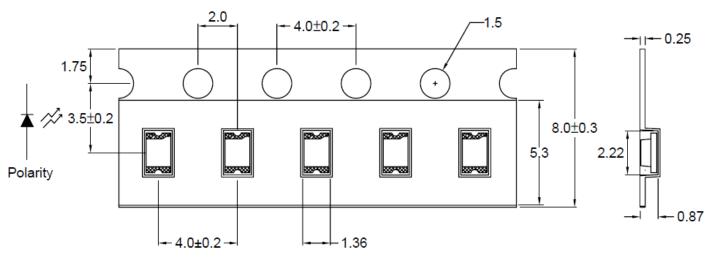


PACKAGING SPECIFICATION

REEL DIMENSIONS



DIMENSIONS OF TAPE (UNIT: MM)



Notes:

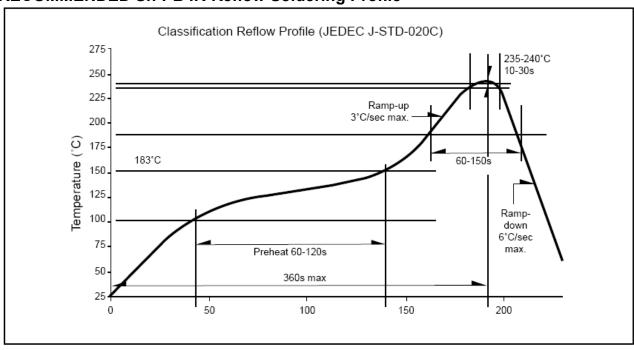
- 1. Empty component pockets are sealed with top cover tape;
- 2. The maximum number of missing lamps is two;
- 3. The cathode is oriented towards the tape sprocket hole.
- 4. 4,000pcs/Reel





SOLDERING CONDITIONS

RECOMMENDED Sn-PB IR-Reflow Soldering Profile



RECOMMENDED Pb-Free Soldering Profile

