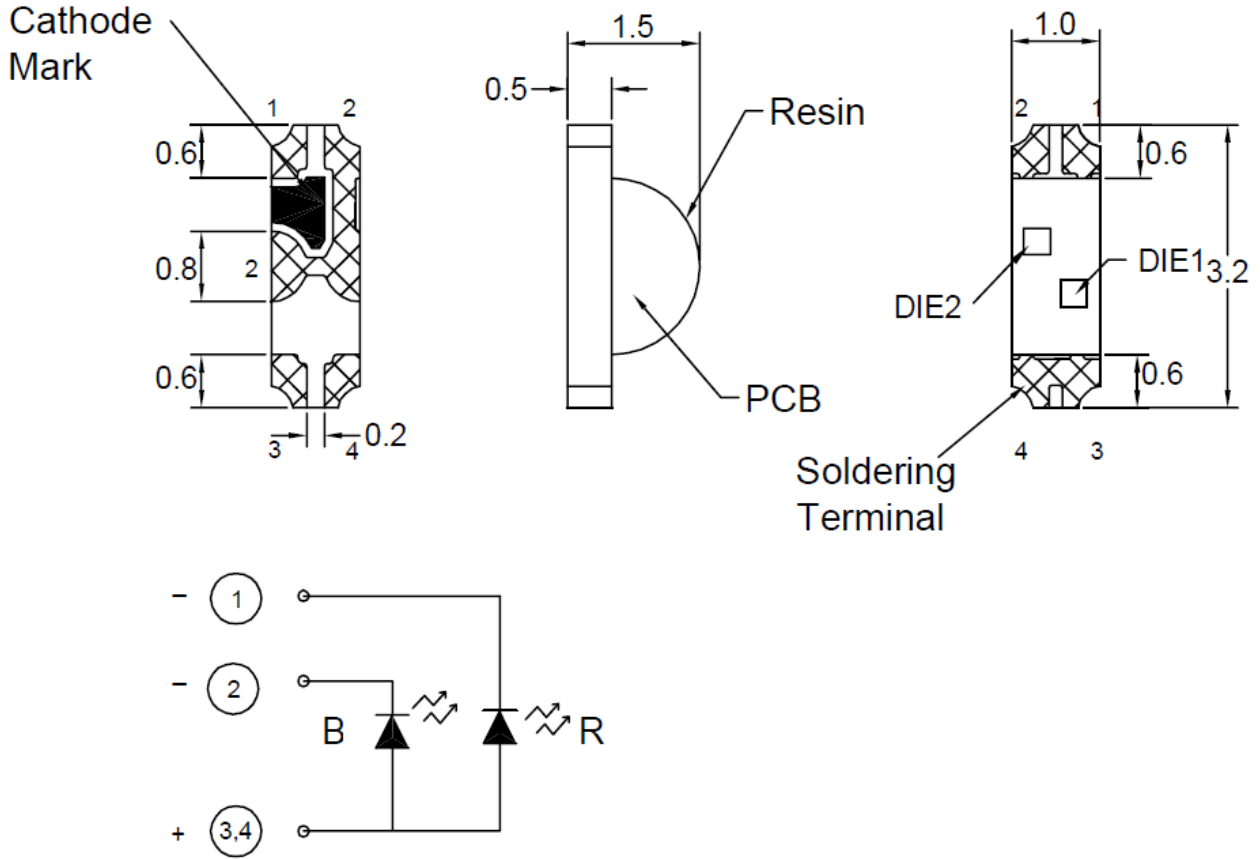


SPECIFICATION **CSRB125R2B2C**
PACKAGE OUTLINES


- 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
CSRB125R2B2C	InGaAlP	Red	Water Clear	120°
	InGaN	Blue		



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating		Unit
		Red	Blue	
Forward Current	I _F	30	20	mA
Reverse Current @ 5V	I _R	10	50	μA
Power Dissipation	P _d	72	80	mW
Peak Pulsing Current (1/10 duty f = 10KHz)	I _{FP}	90	100	mA
Operating Temperature Range	T _{OP}	-40~+85		°C
Storage Temperature Range	T _{STG}	-40~+90		°C
Soldering Temperature	T _{SOL}	Max 260°C for 5 sec Max		

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

Parameter	Symbol	Test Condition	Color	Value			Unit
				Min	Typ	Max	
Luminous Intensity	I _v	I _F = 20mA	R	32	70	-	mcd
			B	20	50		
Forward Voltage	V _F	I _F = 20mA	R	-	2.2	2.4	V
			B	-	3.5	4.0	
Viewing Angle at 50% I _v	2θ _{1/2}	I _F = 20mA	-	-	120	-	Deg
Peak Wavelength	λ _P	I _F = 20mA	R	-	635	-	nm
			B		472		
Dominant Wavelength	λ _D	I _F = 20mA	R	-	630	-	nm
			B		470		

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



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OPTICAL CHARACTERISTIC CURVES - RED

Fig.1 Forward current vs. Forward Voltage

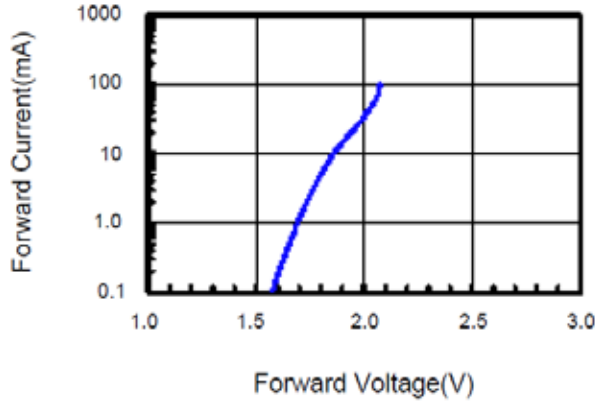


Fig.2 Relative Intensity vs. Forward Current

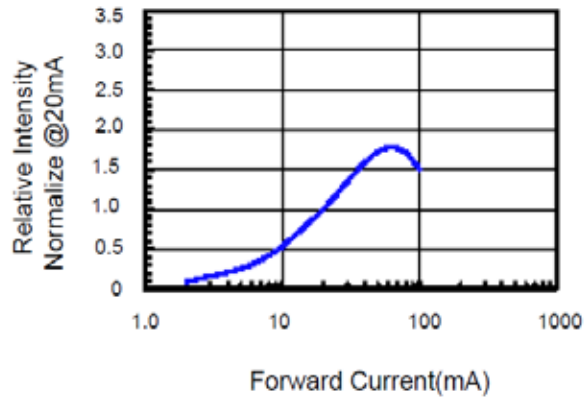


Fig.3 Forward Voltage vs. Temperature

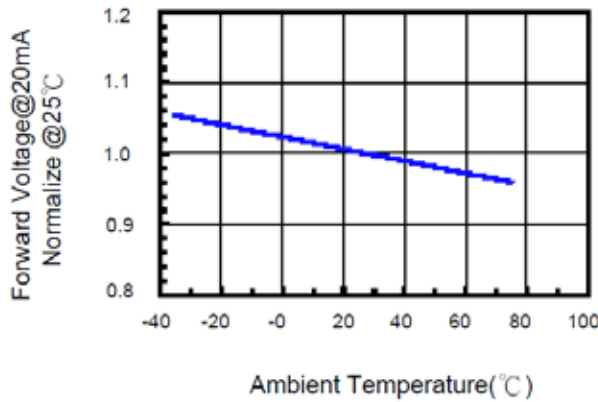


Fig.4 Relative Intensity vs. Temperature

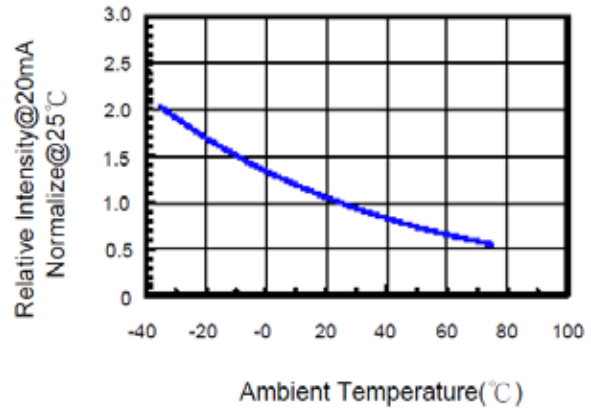


Fig.5 Relative Intensity vs. Wavelength

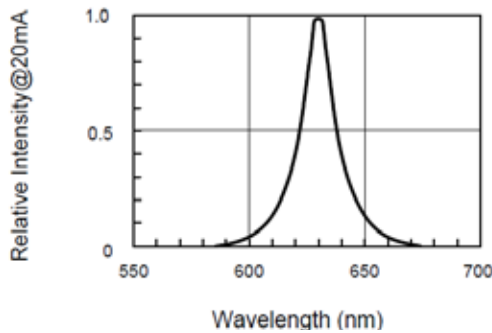
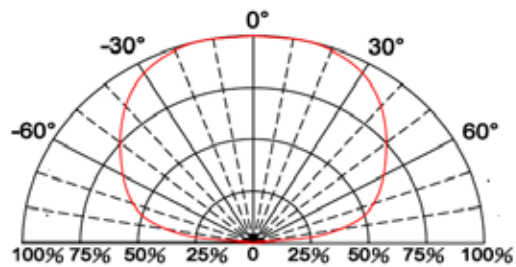


Fig.6 Directive Radiation



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OPTICAL CHARACTERISTIC CURVES - BLUE

Fig.1 Forward current vs. Forward Voltage

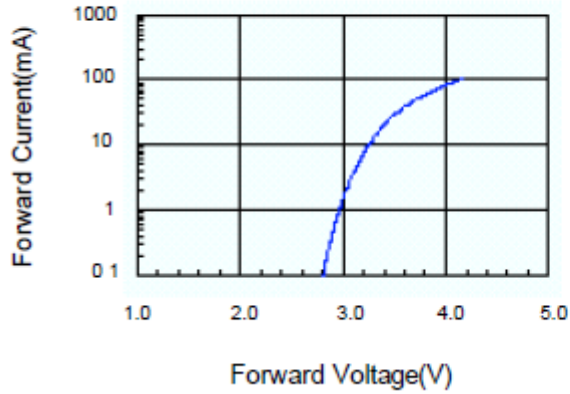


Fig.2 Relative Intensity vs. Forward Current

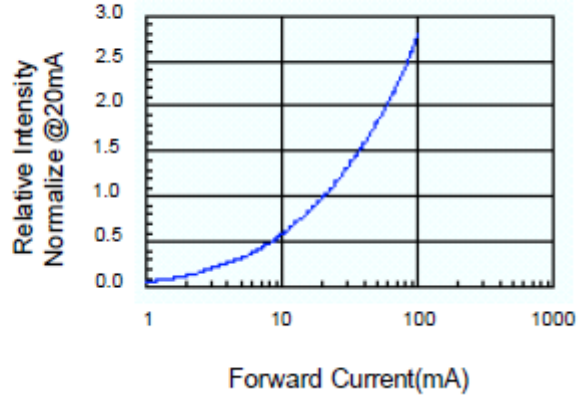


Fig.3 Forward Voltage vs. Temperature

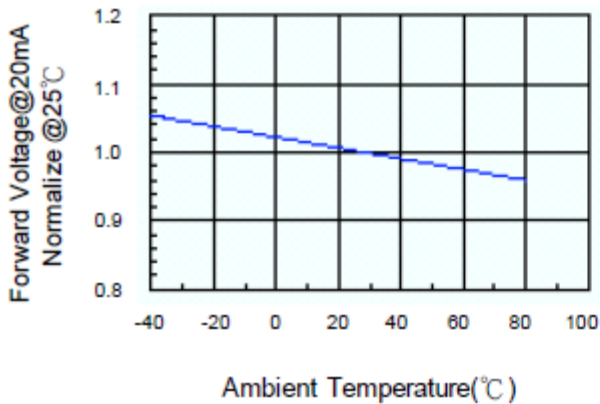


Fig.4 Relative Intensity vs. Temperature

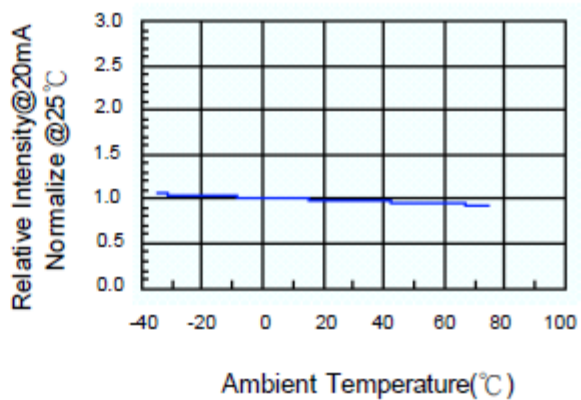


Fig.5 Relative Intensity vs. Wavelength

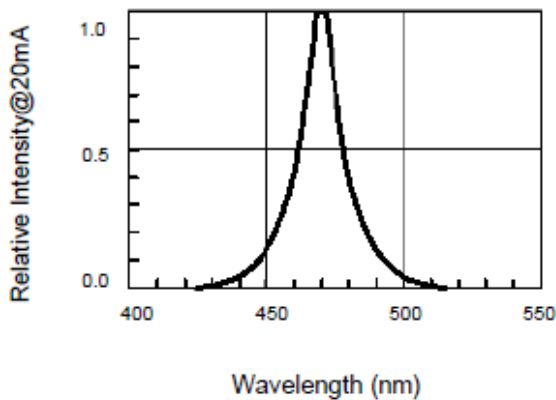
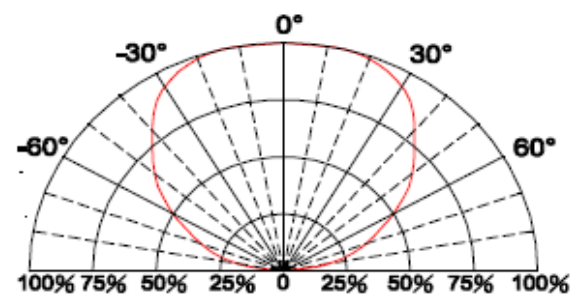


Fig.6 Directive Radiation



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SOLDERING CONDITIONS

RECOMMENDED Sn-PB IR-Reflow Soldering Profile



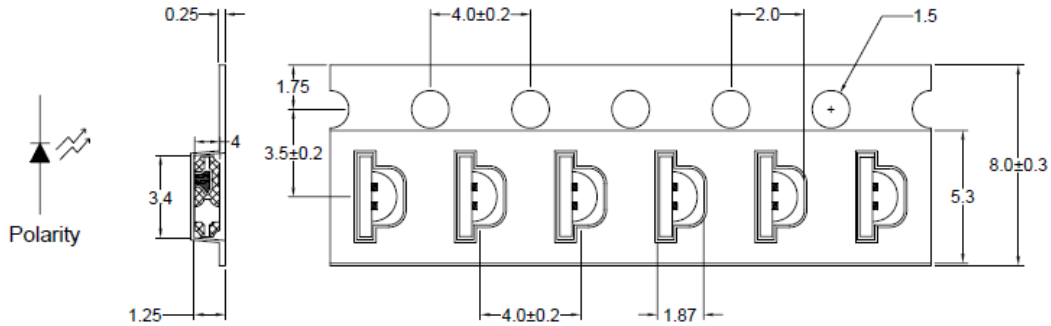
RECOMMENDED Pb-Free Soldering Profile



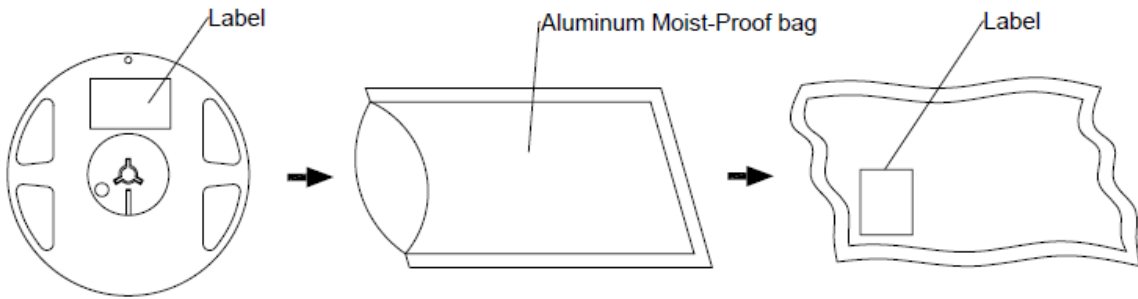
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REEL PACKAGING

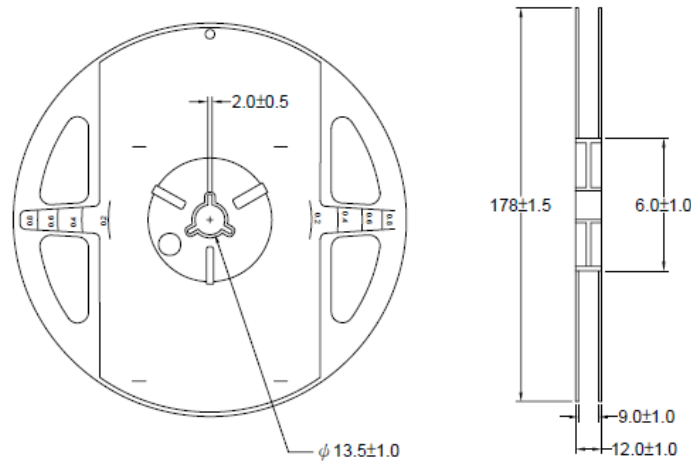
CARRIER TYPE DIMENSIONS



PACKAGING SPECIFICATIONS



REEL DIMENSIONS



Note: 8.0mm Tape, 7" Reel. 3,000 devices per reel.



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