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DATA SHEET

PART NO. : L-C155TBJRCT

REV : A / 0

CUSTOMER'S APPROVAL : _____ DCC : _____

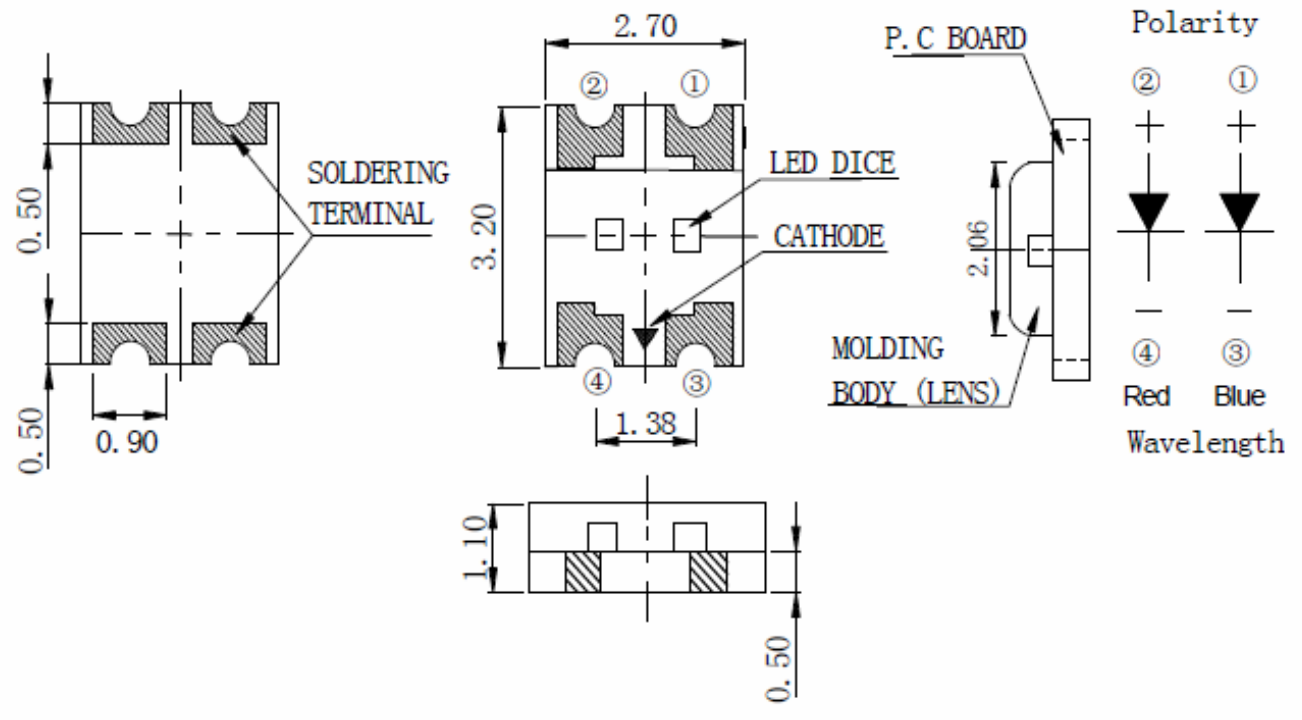


3.2*2.7*1.1 mm SMD LED

L-C155TBJRCT

REV:A / 0

PACKAGE DIMENSIONS



Note:

1. All Dimensions are in millimeters (inches)
2. Tolerance is $\pm 0.20\text{mm}$ (0.004 ") Unless otherwise specified.



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FEATURES

- * LOW POWER CONSUMPTION
- * I.C. COMPATIBLE
- * LONGLIFE SOLID STATE RELIABILITY

CHIP MATERIALS

- * Dice Material : InGaN / AlInGaP
- * Light Color : Blue & RED
- * Lens Color : WATER CLEAR

ABSOLUTE MAXIMUM RATING : (Ta = 25°C)

SYMBOL	PARAMETER	RATING		UNIT
		B	R	
PD	Power Dissipation	76	75	mW
If	Forward Current	20	30	mA
Ifp	Peak Forward Current (1/10 duty cycle 0.1ms)	100	80	mA
VR	Reverse Voltage	5		V
Topr	Operating Temperature Range	-55 ~ + 85		
Tstg	Storage Temperature Range	-55 ~ + 85		

ELECTRO-OPTICAL CHARACTERISTICS : (Ta = 25°C)

SYMBOL	PARAMETER	TEST CONDITION	VALUE			UNIT	
			MIN.	TYP.	MAX.		
VF	Forward Voltage	IF = 20mA	B	3.0	3.8	V	
			R	2.0	2.4		
IR	Reverse Current	VR = 5V			100	μA	
Δλ	Spectral Line Half-Width	IF = 20mA	B	25		nm	
			R	15			
λp	Peak Emission Wavelength	IF = 20mA	B	468		nm	
			R	639			
λD	Dominant Wavelength	IF = 20mA	B	465	470	475	nm
			R	617.5	631	633.5	
2θ1/2	Half Intensity Angle	IF = 20mA		130		deg	
Iv	Luminous Intensity	IF = 20mA	B	28	90	mcd	
			R	18	72		



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Typical Electro-Optical Characteristics Curves
(25 Ambient Temperature Unless Otherwise Noted)

Blue:

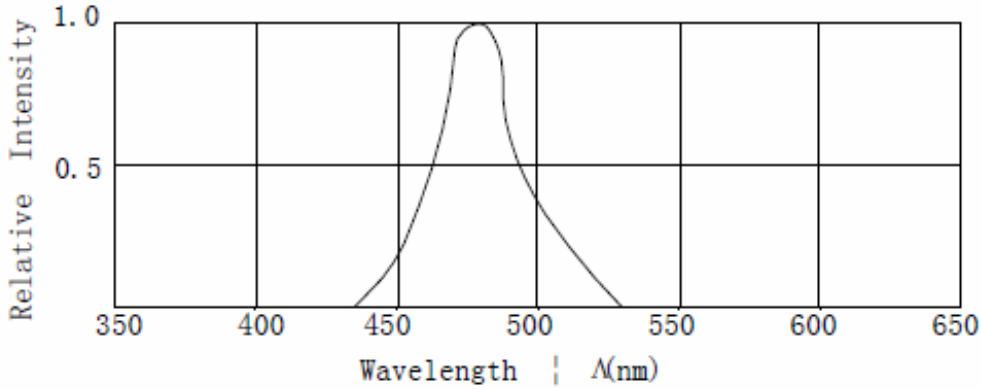


Fig.1 Relative Intensity VS. Wavelength

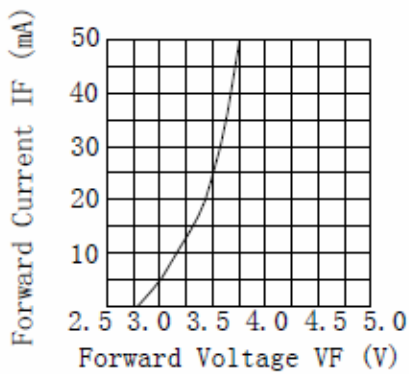


Fig.2 Forward Current vs. Forward Voltage

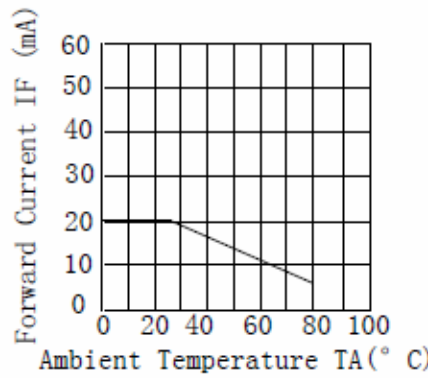


Fig.3 Forward Current Derating Curve

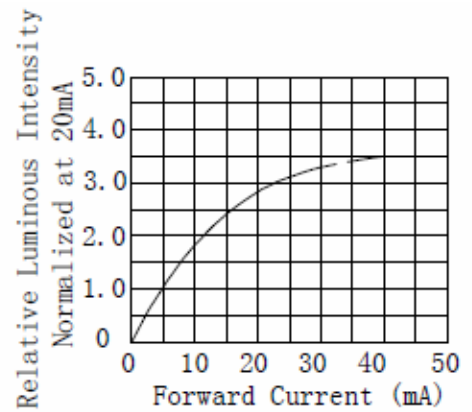


Fig.4 Relative Luminous Intensity vs. Forward Current

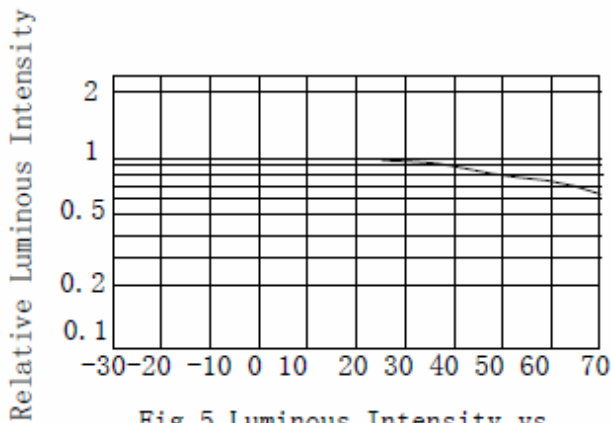


Fig.5 Luminous Intensity vs. Ambient Temperature

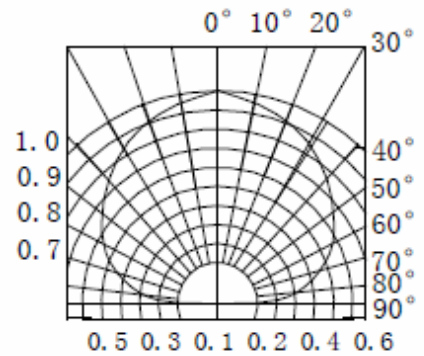


Fig.6 Spatial Distribution



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Typical Electro-Optical Characteristics Curves
(25 Ambient Temperature Unless Otherwise Noted)

Red:

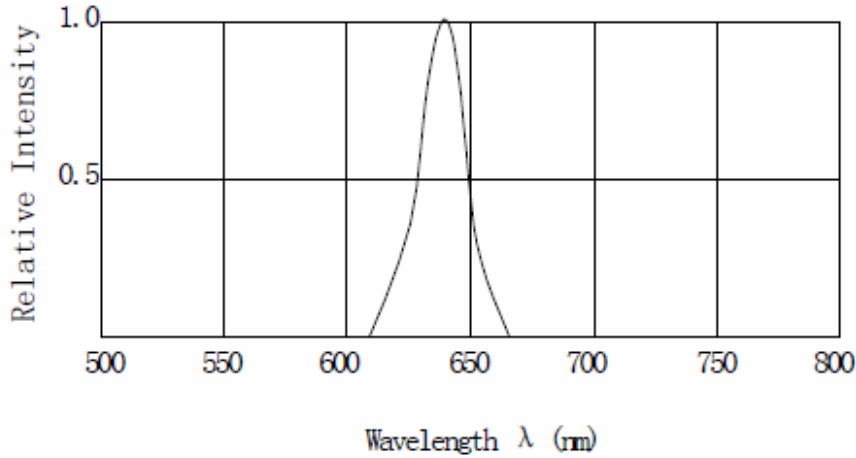


Fig. 1 Relative Intensity vs. Wavelength

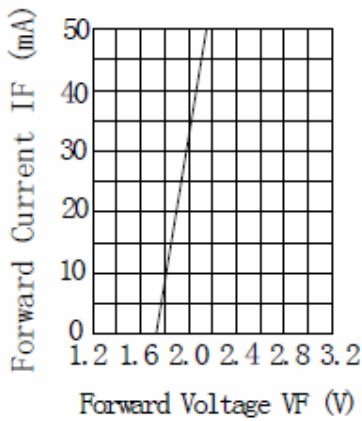


Fig. 2 Forward Current VS. Forward Voltage

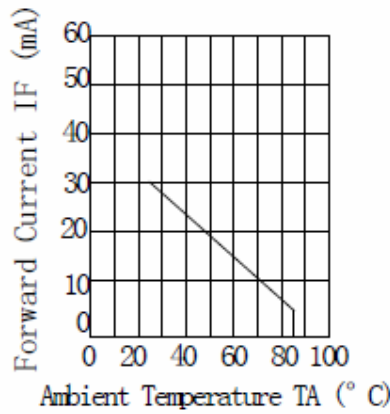


Fig. 3 Forward Current Derating Curve

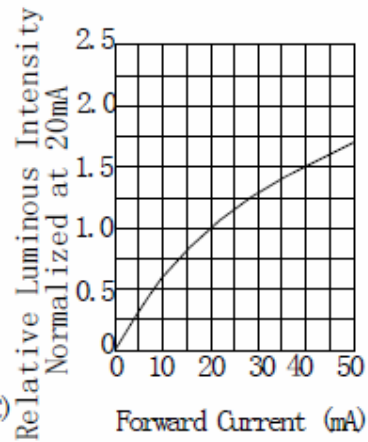


Fig. 4 Relative Luminous Intensity VS. Forward Current

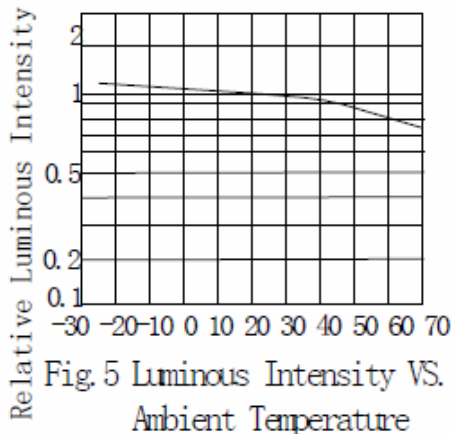


Fig. 5 Luminous Intensity VS. Ambient Temperature

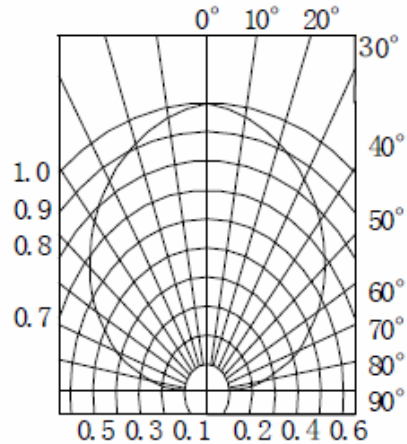


Fig. 6 Spatial Distribution



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Bin Range Of Luminous Intensity

Symbol	Bin Code	Min.	Max.	Unit	Condition
Iv(B)	N	28	45	mcd	IF=20mA
	P	45	72		
	Q	72	112		
	R	112	180		
Iv(R)	M	18	28	mcd	IF=20mA
	N	28	45		
	P	45	72		
	Q	72	112		

Notes:

1. Tolerance of Luminous Intensity +/-20%
2. Tolerance of Forward Voltage +/-0.15V
3. Tolerance of the Dominate Wavelength +/- 2nm



3.2*2.7*1.1 mm SMD LED

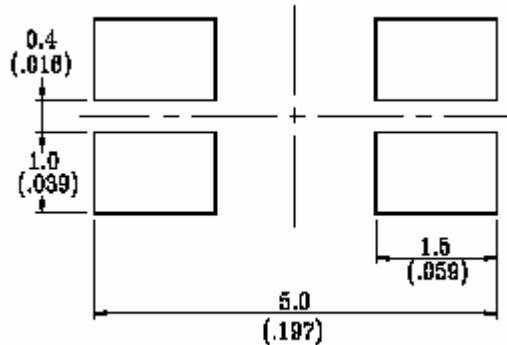
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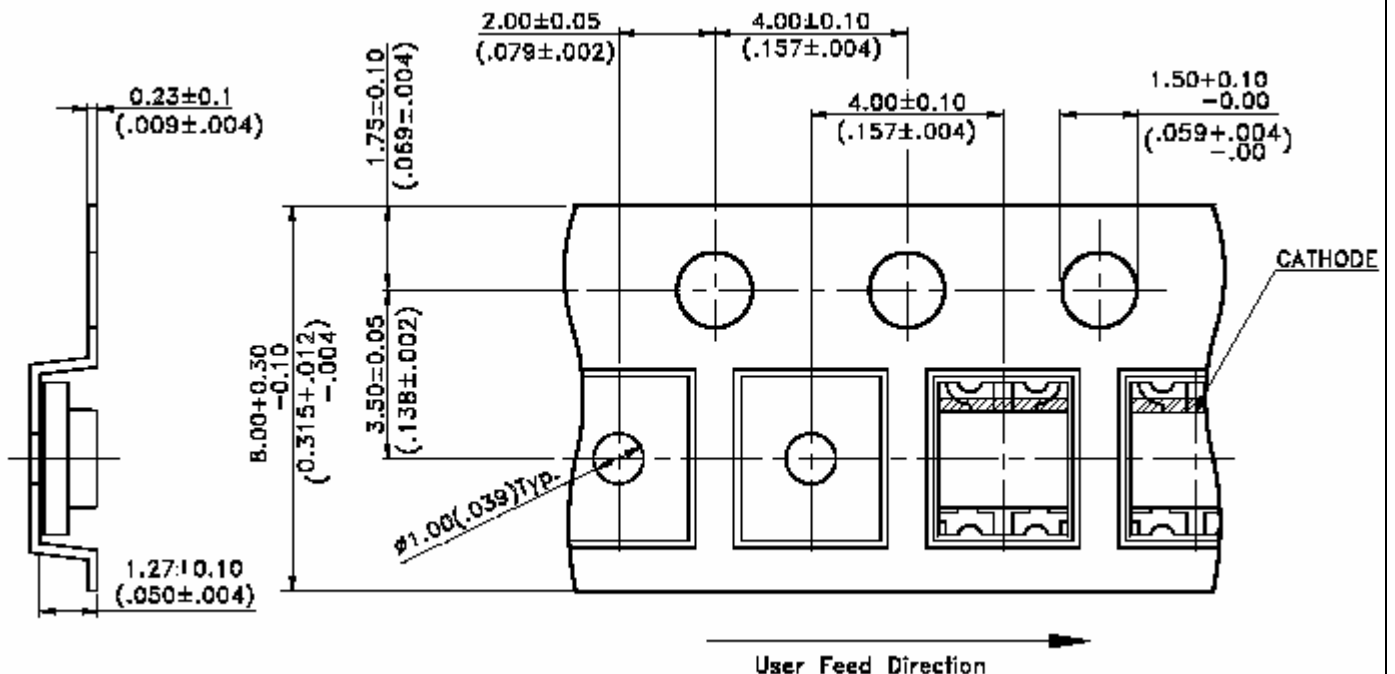
Cleaning

Do not use unspecified chemical liquid to clean LED they could harm the package.
If clean is necessary, immerse the LED in ethyl alcohol or in isopropyl alcohol at normal temperature for less one minute.

Suggest Soldering Pad Dimensions



Package Dimensions Of Tape And Reel



Notes:

1. All dimensions are in millimeters (inches).