XR65-R5P0U

Epoxy molded 650nm RCLED Package (Round Type)

Features

: 650 nm wavelength range

: No threshold

: Narrow beam angle

: Cost effective

: Other configurations available on request

Applications

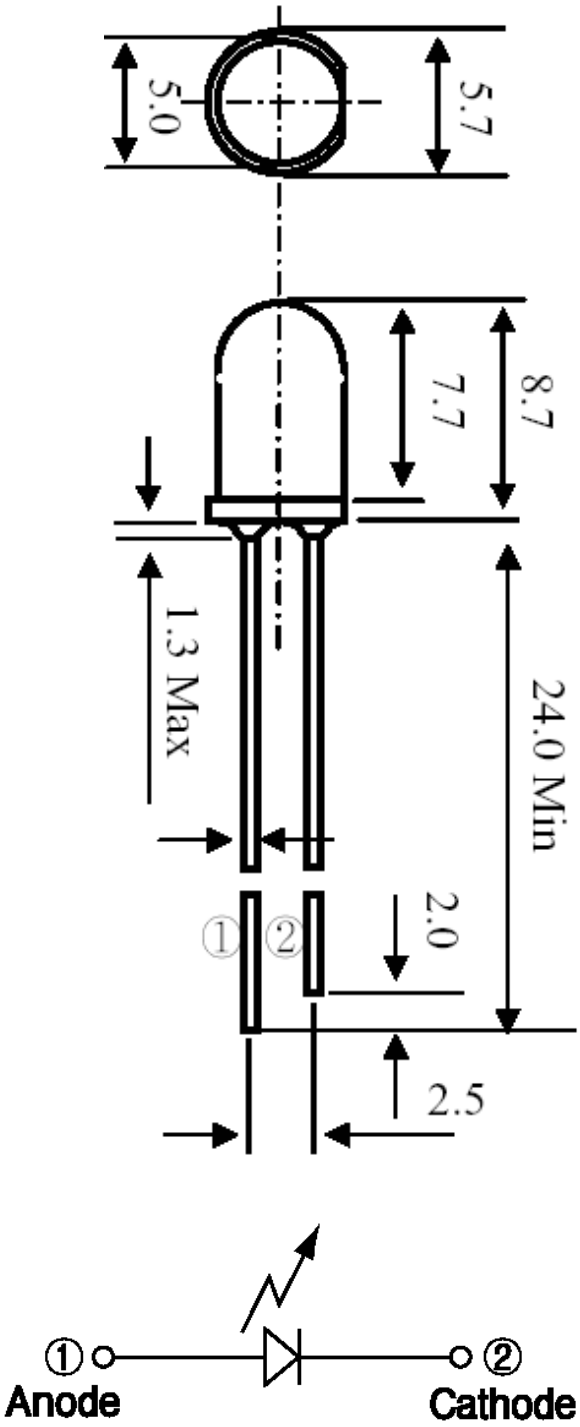
: Sensors

Description

Absolute Maximum Ratings

Parameter	Rating
Storage Temperature	-40 to +100 °C
Operating Temperature	-20 to 70 °C
Lead Solder Temperature	260 °C, 10 sec
Continuous Forward Current	30mA
Continuous Reverse Voltage	5V (@10μA)

Dimensions



Electro-Optics Characteristics (T_a=25°C unless otherwise stated)

Parameters	Symbol	Specified			Unit	Test Conditions
		Min.	Typ.	Max.		
Total Radiant Flux	Φ_o	2.0	2.5		mW	I_f=20mA *
Peak Wavelength	λ_P	640	650	660	nm	I_f=20mA**
Spectral Width	$\Delta\lambda$		7		nm	T_a=0 to 70 °C at 20mA**
Beam Divergence	Θ		18		Deg.	I_f=20mA, FWHM
Forward Voltage	V_f		2.0	2.2	V	I_f=20mA
Rise Time / Fall Time	t_R / t_F		3/3		ns	I_f=20mA, (10% - 90%)

Test Data were measured in TO header of wire bonded chip

* Measured in integrating sphere

** Measured in axial direction (0.01sr)

* ** Value is referenced to the vender's measurement system (correlation to customer product is required).

Thermal Characteristics

Parameters	Symbol	Specified			Unit	Test Conditions
		Min.	Typ.	Max.		
P_o Temp Coefficient	$\Delta P_o / \Delta T$		-0.6		%/ °C	-20 °C ~ 70 °C at I_f=20mA
λ_P Temp Coefficient	$\Delta\lambda / \Delta T$		0.07		nm/ °C	-20 °C ~ 70 °C at I_f=20mA

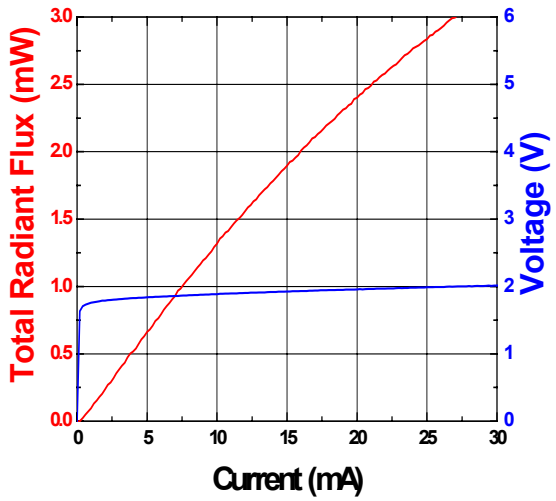
Notes

* These specifications are subject to change without notice.

NOTICE	The inherent design of this component causes it to be sensitive to electrostatic discharge(ESD). To prevent ESD-induced damage and/or degradation to equipment, take normal ESD precautions when handling this product
DANGER	The RCLED should be treated as a potential eye hazard. Due to the size of the component, the applicable warning logotype, aperture label, and certification / identification label cannot be placed on the component itself.

Characteristics Curves

LIV Curve



EL Spectrum