

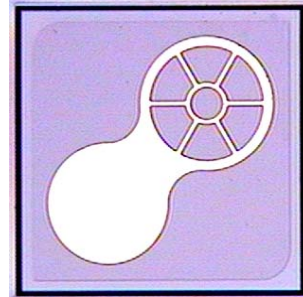
Features

- : 850 nm wavelength range
- : High bandwidth
- :
- : Enhanced coupling efficiency
- : Other configurations available on request

Applications

- : Data Link Communication
- : IrDA
- : Sensors
- : Industrial applications

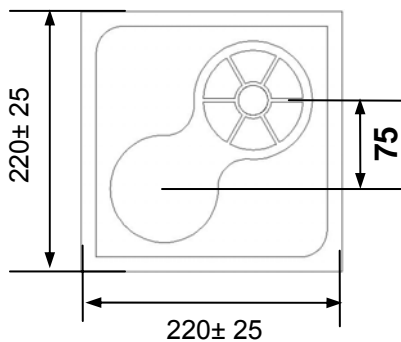
Description



Absolute Maximum Ratings (Tc=25°C)

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

Dimensions



Unit: µm

Die Height: 200±15 µm

Bonding pad : Φ 90 (Anode Pad)

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

Parameters	Symbol	Specified			Unit	Test Conditions
		Min.	Typ.	Max.		
Total Radiant Flux	Φ_o		1.2		mW	I _f =20mA *
Radiant Intensity	P _o		0.4		mW/sr	I _f =20mA**
Peak Wavelength	λ_p	840	850	860	nm	I _f =20mA*
Spectral Width	$\Delta\lambda$		10		nm	I _f =20mA**, FWHM
Beam Divergence	Θ		100		Deg.	I _f =20mA, FWHM
Forward Voltage	V _f		1.6		V	I _f =20mA

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	$\Delta P_o / \Delta T$		-0.5		%/ °C	-20 °C ~ 70 °C at I _f =20mA
λ_p Temp Coefficient	$\Delta\lambda / \Delta T$		0.06		nm/ °C	-20 °C ~ 70 °C at I _f =20mA

Notes

* These specifications are subject to change without notice.

NOTICE

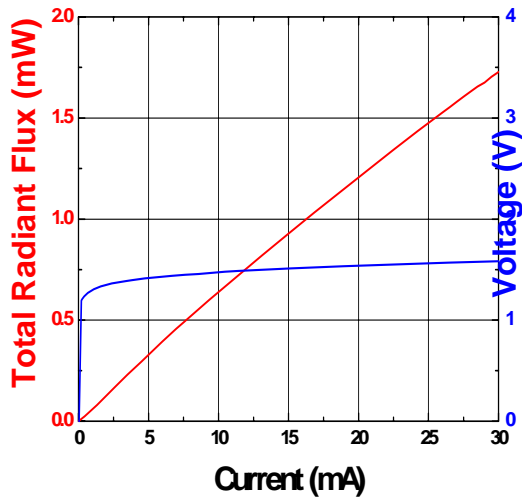
The inherent design of this component causes it to be sensitive to electrostatic discharge(ESD). To prevent ESD-induced damage and/or degradation to equipment, take normal ESD precautions when handling this product

DANGER

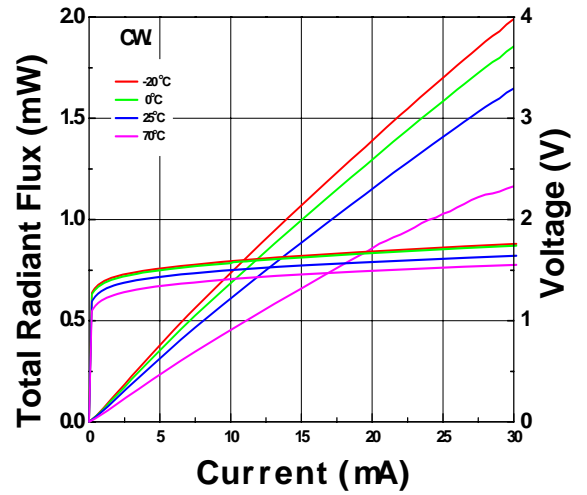
The RCLED should be treated as a potential eye hazard. Due to the size of the component, the applicable warning logotype, aperture label, and certification / identification label cannot be placed on the component itself.

Characteristics Curves

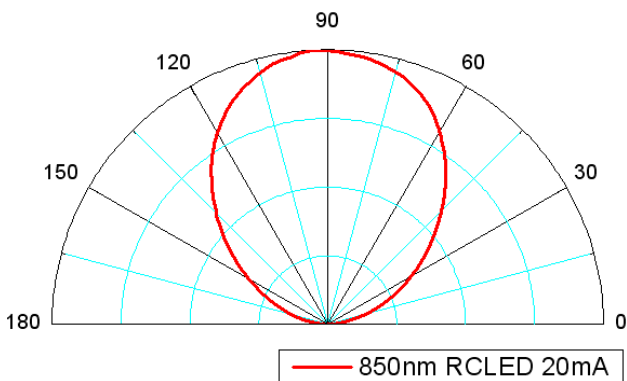
LIV Curve



LIV vs Temperature



Angular Radiation



EL Spectrum

