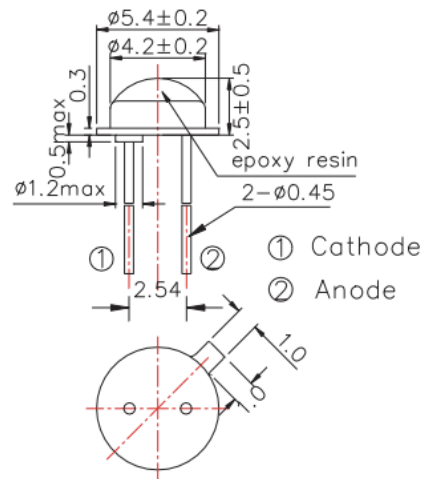


Specifications:

Product:	Infrared LED lamp
Product Number:	LED1010
Product Description:	Stem TO-46 type LED with epoxy resin lens
Centroid Wavelength:	850 nm
Output Power:	44 mW

Dimensions (mm):



Warning: Avoid looking directly into the LEDs. Prolonged direct exposure to the LED can be damaging to the eyes.

Absolute Maximum Ratings:

Parameter	Symbol	Maximum Rated Value	Ambient Temperature
Operating Temperature	T_{OPR}	-30 ~ +80 °C	$T_a = 25$ °C
Power Dissipation	P_{tot}	160 mW	$T_a = 25$ °C
Forward Current	I_F	100 mA	$T_a = 25$ °C
Pulse Forward Current	I_{FP}	1 A	$T_a = 25$ °C

Electro-Optical Characteristic:

Parameter	Symbol	Condition	Minimum	Typical	Maximum
Forward Voltage	V_F	$I_F = 50$ mA DC		1.45 V	1.6 V
		$I_F = 100$ mA DC, $t_p = 20$ ms		1.50 V	1.7 V
Total radiant flux	Φ_e	$I_F = 50$ mA DC	16 mW	22 mW	
		$I_F = 100$ mA DC, $t_p = 20$ ms		44 mW	
Radiant Intensity	I_E	$I_F = 50$ mA DC		8 mW / sr	
		$I_F = 100$ mA DC, $t_p = 20$ ms		16 mW / sr	
Centroid Wavelength	λ_P	$I_F = 50$ mA DC	840 nm	850 nm	860 nm
Half angle	$\theta_{1/2}$	$I_F = 50$ mA DC		$\pm 60^\circ$	