

785 nm Fabry-Perot Laser Diode, 90 mW

L785P090



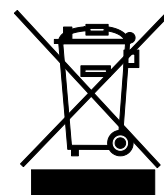
Description

The L785P090 785 nm discrete laser diode is a compact light source suited to many applications. It comes in a Ø5.6 mm TO-can package with a C pin configuration.

Specifications

Absolute Maximum Ratings ^a	
LD Reverse Voltage (Max)	2 V
PD Reverse Voltage	30 V
Operating Case Temperature	-10 to 70 °C
Storage Temperature	-40 to 85 °C
Pin Code	C

a. Please note that exceeding the absolute maximum ratings above may cause damage to the device.



L785P090 ^a				
	Symbol	Min	Typical	Max
Center Wavelength ^b	λ_p	775 nm	785 nm	795 nm
Optical Power	P_O	-	90 mW	100 mW
Threshold Current ^b	I_{TH}	-	35 mA	60 mA
Operating Current ^b	I_{OP}	-	125 mA	165 mA
Operating Voltage ^b	V_{OP}	1.5 V	2.0 V	2.6 V
Slope Efficiency ^b	η	0.7 W/A	1.1 W/A	1.4 W/A
Astigmatism	As	-	-	15 μ m
Beam Divergence Angle ^b	$\theta_{ }$	6°	10°	14°
	θ_{\perp}	13°	17°	21°
Beam Angle Deviation ^b	$\theta_{ }$	-3°	-	3°
	θ_{\perp}	-3°	-	3°
Emission Point Accuracy	ΔX	-60 μ m	-	60 μ m
	ΔY	-60 μ m	-	60 μ m
	ΔZ	-60 μ m	-	60 μ m

a. $T_{case} = 25^{\circ}C$

b. $P_O = 90$ mW

Drawing

