

# Red Laser Diode

Part No: LD-658-1A-60-B-2



## Features

- ※ Wavelength:  $\lambda = 658\text{nm}$  (Type)
- ※ Low threshold current:  $I_{th} = 55\text{mA}$  (Type)
- ※ Output optical power: 100mW
- ※ Package: T0-18 ( $\Phi 5.6\text{mm}$ )

## Applications

- ※ Industrial Use

### Absolute Maximum Rating at $T_c = 25^\circ\text{C}$

Items	Symbols	Values	Unit
Optical Output Power	$P_o$ (CW)	110	mW
	$P_o$ (Pulse)	250	mW
Laser Diode Reverse Voltage	$V_r$	2	V
Operating Temperature	$T_{opr}$	$-10 \sim +60$	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	$-40 \sim +80$	$^\circ\text{C}$

### Electrical and Optical Characteristics at $T_c = 25^\circ\text{C}$

Items	Symbols	Min	Type	Max.	Unit	Condition
Optical Output Power	$P_o$	-	100	-	mW	CW
Threshold Current	$I_{th}$	-	55	70	mA	CW
Operating Current	$I_{op}$	-	155	165	mA	$P_o = 100\text{mW}$
Slope Efficiency	$\eta$	0.8	1	-	mW/mA	$P_o = 100\text{mW}$
Operating Voltage	$V_{op}$	-	2.5	3	V	$P_o = 100\text{mW}$
Lasing Wavelength	$\lambda$	650	658	665	nm	$P_o = 100\text{mW}$
Beam Divergence	//	8	10	12	$^\circ$	$P_o = 100\text{mW}$
	$\perp$	16	20	22	$^\circ$	$P_o = 100\text{mW}$
Beam Angle	$\Delta //$	-	-	$\pm 2$	$^\circ$	$P_o = 100\text{mW}$
	$\Delta \perp$	-	-	$\pm 2$	$^\circ$	$P_o = 100\text{mW}$
Emission Point Accuracy	$\Delta X, \Delta Y, \Delta Z$	-80	-	80		$P_o = 100\text{mW}$

1) Measurement condition: CW

2) Full angle at half maximum.

3) All the above values are measured by OPELUS method.

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## Package and Electrical connection

