

**Compact Laser Diode LD0780-150**



**Features**

- \* Wavelength:  $\lambda = 780\text{nm}$ (Type)
- \* Low threshold current:  $I_{th}=50\text{mA}$ (Type)
- \* Output optical power: 150mW
- \* 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	Po(CW)	150	mW
	Po(Pulse)	350	mW
Laser Diode Reverse Voltage	Vr	2	V
Operating Temperature	Topr	-10~+70	$^\circ\text{C}$
Storage Temperature	Tstg	-40~+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	Po	-	120	-	mW	CW
Threshold Current	Ith	-	50	75	mA	CW
Operating Current	Iop	-	180	220	mA	Po=150mW
Slope Efficiency	SE	0.8	1	-	mW/mA	Po=150mW
Operating Voltage	Vop	-	2	2.3	V	Po=150mW
Lasing Wavelength	$\lambda$	775	780	795	nm	Po=150mW
Beam Divergence	//	8	10	13	$^\circ$	Po=150mW
	$\perp$	16	20	24	$^\circ$	Po=150mW
Beam Angle	$\Delta$ //	-	-	$\pm 2$	$^\circ$	Po=150mW
	$\Delta$ $\perp$	-	-	$\pm 3$	$^\circ$	Po=150mW

- 1) Measurement condition: CW
- 2) Full angle at half maximum.

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*Package and Electrical connection*

