

# Red Laser Diode

Part No: LD-685-35-70-E-2



## Features

- ※ Short wavelength:  $\lambda=685\text{nm}$ (Type)
- ※ Output optical power: 35mW
- ※ 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)	35	mW
	Po (Push)	55	mW
Laser Diode Reverse Voltage	V	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	-	35	-	mW	CW
Threshold Current	Ith	-	25	35	mA	CW
Operating Current	Iop	-	50	60	mA	Po=35mW
Slope Efficiency	$\eta$	0.8	1.2	-	mW/mA	CW
Operating Voltage	Vop	-	2.5	2.8	V	Po=35mW
Lasing Wavelength	$\lambda$	675	685	695	nm	Po=35mW
Beam Divergence	//	11	13	16	$^\circ$	Po=35mW
	$\perp$	14	17	20	$^\circ$	Po=35mW
Beam Angle	$\Delta$ //	-	-	$\pm 2$	$^\circ$	Po=35mW
	$\Delta$ $\perp$	-	-	$\pm 2$	$^\circ$	Po=35mW
Emission Point Accuracy	$\Delta X, \Delta Y, \Delta Z$	-80	-	80	$\mu\text{m}$	Po=35mW

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

