



8018-4200-00 808nm 180mW IR Laser Diodes

Specifications

Device Laser Diode
 Package Type TO-18(5.6mm)
 TO-5(φ9.0mm)
 50um Aperture Broad Area



1.Common



2. LD

Absolute Maximum Ratings(Tc=25)

Characteristics	Symbols	Ratings	Units
Optical Output	Po	180	mW
Reverse Voltage	Laser Vr	3	V
Operating Temperature	Top	25	

Electrical and optical Characteristics(Tc=25)

Characteristics	Symbols	Conditions	Min.	Typ.	Max.	Units
Threshold Current	Ith	-	-	130	150	mA
Operating Current	Iop	Po=180mW	-	300	380	mA
Operating Voltage	Vop	Po=180mW	-	2	2.5	Volts
Slope Efficiency		100mW	0.6	0.9	-	mW/mA
		I(150mW)-I(50mW)				
Beam Divergence (FWHM)	Parallel	Po=180mW	-	10	-	deg.
	Prependicular	Po=180mW	-	40	-	deg.
Lasing Wavelength		Po=180mW	805	808	813	nm