

D405-20

• 405nm 20mW laser diode•

Features

- Device: 405nm laser diode
- Power: 20mW
- Package Type: 5.6mm TO
- PIN configuration: Style B

▪ Absolute Maximum Rating (Tc=25°C)

Characteristics	Symbols	Rating	Unit
Optical power	Po	20	mW
Reverse Voltage (Laser)	V	2	V
Reverse Voltage (PIN)	V	30	V
Operating Temperature	Top	-10 to +70	°C
Storage Temperature	Tstg	-40 to +85	°C

▪ Electrical and Optical Characteristics (Tc=25°C)

Characteristics	Symbols	Min	Typ	Max.	Unit	Condition
Optical Power	Po	-	20	-	mW	-
Threshold Current	Ith	-	25	50	mA	Po=20mW
Operating Current	Iop	-	50	75	mA	Po=20mW
Operating Voltage	Vop	-	5.0	6.5	Volts	Po=20mW
Slope Efficiency	η	-	1.3	-	mW/mA	-
Lasing Wavelength	λ	395	405	415	nm	Po=20mW
Beam Divergence	θ_{\parallel}	6.0	9.0	12	deg	Po=20mW
	θ_{\perp}	16	20	25	deg	Po=20mW
Beam Angle Deviation	θ_{\parallel}	-3		3	deg	Po=20mW
	θ_{\perp}	-3		3	deg	Po=20mW
Monitor Current	Im	-	0.20	0.50	mA	Po=20mW
Emission Point Accuracy	ΔX	-80	-	80	μm	
	ΔY	-80	-	80	μm	
	ΔZ	-80	-	80	μm	
Astigmatism	As	-	-	15	μm	

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