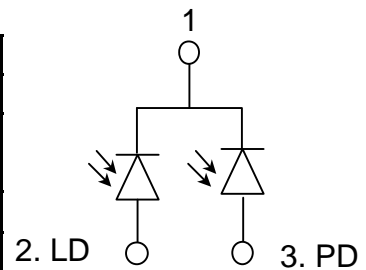




6550-5151-DV 650nm 5 mW Laser Diodes AUTO PACKAGE

Specifications

Device Laser Diode
Package Type TO-18(5.6mm)



Absolute Maximum Ratings(Tc=25)

Characteristics	Symbols	Ratings	Units
Optical Output	Po	5	mW
Reverse Voltage	Laser	2	V
	PIN PD	30	V
Operating Temperature	Top	-10 +70	
Storage Temperature	Tstg	-40 +85	

Electrical and optical Characteristics(Tc=25)

Characteristics	Symbols	Conditions	Min.	Typ.	Max.	Units
Threshold Current	Ith	-	-	30	60	mA
Operating Current	Iop	Po=5mW	-	40	70	mA
Operating Voltage	Vop	Po=5mW	-	2.2	2.6	Volts
Slope Efficiency		2mW	0.2	0.4	0.8	mW/mA
		I(5mW)-I(3mW)				
Monitor Current	Im	Po=5mW	0.1	0.2	0.5	mA
Beam Divergence (FWHM)	Parallel	Po=5mW	6	8	10	deg.
	Prependicular	Po=5mW	20	27	35	deg.
Parallel Deviation Angle	//	Po=5mW	-3	-	3	deg.
Perpendicular Deviation Angle		Po=5mW	-4	-	4	deg.
Emission Point Accuracy	X	Po=5mW	-100	-	100	um
	Y	Po=5mW	-100	-	100	um
	Z	Po=5mW	-100	-	100	um
Lasing Wavelength		Po=5mW	645	657	665	nm

Im is sorting by custom's need

// and are defined as the angle within which the intensity is 50% of the peak value.