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

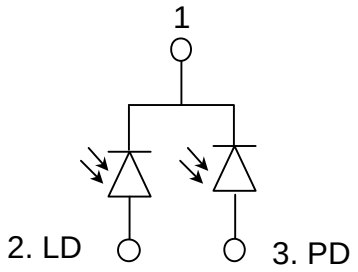
Specifications

Device Laser Diode

Package Type TO-18(φ5.6mm)

■Absolute Maximum Ratings(Tc=25℃)

Characteristics		Symbols	Ratings	Units
Optical Output		Po	**5**	mW
Reverse Voltage	Laser	Vr	**2**	V
	PIN PD	Vr(PIN)	**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		η	2mW / I(5mW)-I(3mW)	**0.2**	**0.4**	**0.8**	mW/mA
Monitor Current		Im	Po=5mW	**0.1**	**0.2**	**0.5**	mA
Beam Divergence (FWHM)	Parallel	θ//	Po=5mW	**6**	**8**	**10**	deg.
	Prependicular	θ⊥	Po=5mW	**20**	**27**	**35**	deg.
Parallel Deviation Angle		Δθ//	Po=5mW	**-3**	-	**3**	deg.
Perpendicular Deviation Angle		Δθ⊥	Po=5mW	**-4**	-	**4**	deg.
Emission Point Accuracy		ΔX	Po=5mW	**-100**	-	**100**	um
		ΔY	Po=5mW	**-100**	-	**100**	um
		ΔZ	Po=5mW	**-100**	-	**100**	um
Lasing Wavelength		λ	Po=5mW	**645**	**657**	**665**	nm

Im is sorting by custom's need

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