



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

Specifications

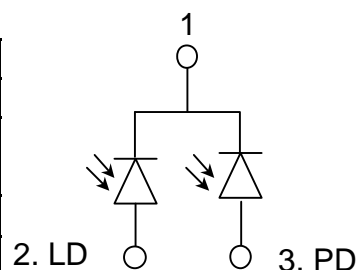
Device Laser Diode  
Package Type TO-18( 5.6mm)



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Absolute Maximum Ratings(Tc=25 )

Characteristics	Symbols	Ratings	Units
Optical Output	Po	<b>5</b>	mW
Reverse Voltage	Laser	<b>2</b>	V
	PIN PD	<b>30</b>	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	-	-	<b>30</b>	<b>60</b>	mA
Operating Current	Iop	Po=5mW	-	<b>40</b>	<b>70</b>	mA
Operating Voltage	Vop	Po=5mW	-	<b>2.2</b>	<b>2.6</b>	Volts
Slope Efficiency		2mW	<b>0.2</b>	<b>0.4</b>	<b>0.8</b>	mW/mA
		I(5mW)-I(3mW)				
Monitor Current	Im	Po=5mW	<b>0.1</b>	<b>0.2</b>	<b>0.5</b>	mA
Beam Divergence (FWHM)	Parallel	Po=5mW	<b>6</b>	<b>8</b>	<b>10</b>	deg.
	Prependicular	Po=5mW	<b>20</b>	<b>27</b>	<b>35</b>	deg.
Parallel Deviation Angle	//	Po=5mW	<b>-3</b>	-	<b>3</b>	deg.
Perpendicular Deviation Angle		Po=5mW	<b>-4</b>	-	<b>4</b>	deg.
Emission Point Accuracy	X	Po=5mW	<b>-100</b>	-	<b>100</b>	um
	Y	Po=5mW	<b>-100</b>	-	<b>100</b>	um
	Z	Po=5mW	<b>-100</b>	-	<b>100</b>	um
Lasing Wavelength		Po=5mW	<b>645</b>	<b>657</b>	<b>665</b>	nm

Im is sorting by custom's need

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