

**8052-1313-AU 808nm 500mW IR Laser Diodes AUTO PACKAGE**

Specifications

Device Laser Diode  
 Package Type TO-5( 9.0mm)



Absolute Maximum Ratings(Tc=25 )

Characteristics		Symbols	Ratings	Units
Reverse Voltage	Reverse Voltage	Po	<b>500</b>	mW
		Vr	<b>2</b>	V
Voltage	PIN PD	Vr(PIN)	<b>10</b>	V
Operating Temperature		Top	-10 +40	
Storage Temperature		Tstg	-40 +85	

Electrical and optical Characteristics(Tc=25 )

Characteristics		Symbols	Conditions	Min.	Typ.	Max.	Units
Threshold Current		Ith	-	-	<b>250</b>	<b>400</b>	mA
Operating Current		Iop	Po=500mW	-	<b>800</b>	<b>1500</b>	mA
Operating Voltage		Vop	Po=500mW	-	<b>1.9</b>	<b>2</b>	Volts
Slope Efficiency			200mW I(500mW)-I(300mW)	<b>0.3</b>	<b>0.7</b>	<b>1.0</b>	mW/mA
Monitor Current		Im	Po=500mW	-		<b>6.0</b>	mA
Beam Divergence (FWHM)	Parallel	//	Po=500mW	-	<b>5.5</b>	-	deg.
	Prependicular		Po=500mW	-	<b>32</b>	-	deg.
Parallel Deviation Angle		//	Po=500mW	<b>-3</b>	-	<b>3</b>	deg.
Perpendicular Deviation Angle			Po=500mW	<b>-3</b>	-	<b>3</b>	deg.
Emission Point Accuracy		X	Po=500mW	<b>-50</b>	-	<b>50</b>	μ m
		Y	Po=500mW	<b>-50</b>	-	<b>50</b>	μ m
		Z	Po=500mW	<b>-50</b>	-	<b>50</b>	μ m
Lasing Wavelength			Po=500mW	<b>806</b>	<b>808</b>	<b>812</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.