

8013-2323-AU 808nm 1000mW 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	1000	mW
		Vr	2	V
Voltage	PIN PD	Vr(PIN)	10	V
Operating Temperature		Top	-10 +30	
Storage Temperature		Tstg	-40 +85	

Electrical and optical Characteristics(Tc=25)

Characteristics		Symbols	Conditions	Min.	Typ.	Max.	Units
Threshold Current		Ith	-	-	300	500	mA
Operating Current		Iop	Po=1000mW	-	1400	2000	mA
Operating Voltage		Vop	Po=1000mW	-	2.1	3	Volts
Slope Efficiency			500mW (1000mW)-I(500mW)	0.5	0.9	1.0	mW/mA
Monitor Current		Im	Po=1000mW	0.3	1.5	6.0	mA
Beam Divergence (FWHM)	Parallel	//	Po=1000mW	4	9	17	deg.
	Prependicular		Po=1000mW	20	30	40	deg.
Parallel Deviation Angle		//	Po=1000mW	-3	-	3	deg.
Perpendicular Deviation Angle			Po=1000mW	-3	-	3	deg.
Emission Point Accuracy		X	Po=1000mW	-50	-	50	μ m
		Y	Po=1000mW	-50	-	50	μ m
		Z	Po=1000mW	-50	-	50	μ m
Lasing Wavelength			Po=1000mW	804	807	810	nm

Im is sorting by custom's need

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