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[US-Lasers, Inc.](#)
[D8085I](#)

For any questions, you can email us directly:
sales@integrated-circuit.com

US-Lasers: 808nm-5mW - Infrared Laser Diode

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INFRARED DIODE LASER DATA SHEETS
ABSOLUTE MAXIMUM RATINGS - (Tc=25 °C)

TECHNICAL DATA for LASER DIODE <ul style="list-style-type: none"> Index Guided MQW Structure Wavelength: 808nm (Typ.) Optical Power: 5mW CW Threshold Current: 25mA (Typ.) Standard Package: 5.6mm 		
Infrared light output	808nm	Pin Out Diagram - Style A
Optical power output	5mW CW	
Package Type	5.6mm	
Built-in photo diode for monitoring laser output		

Items	Symbols	Values	Unit
Optical output power	Po	5	mW
Laser diode reverse voltage	VLDR	2	V
Photo diode reverse voltage	VPDR	30	V
Operating temperature	Topr	-10 ~ +40	°C
Storage temperature	Tstg	-40 ~ +85	°C

OPTICAL and ELECTRICAL CHARACTERISTICS - (Tc=25 °C)							
Items	Symbols	Min.	Typ.	Max.	Unit	Test Condition	
Optical output power	Po	-	5	-	mW	-	
Threshold current	Ith	10	20	35	mA	-	
Operating current	Iop	15	25	45	mA	Po=5mW	
Operating voltage	Vop	1.9	2.1	2.5	V	Po=5mW	
Lasing wavelength	λ D	800	808	820	nm	Po=5mW	
Beam divergence	θ F	8	11	15	deg	Po=5mW	
Beam divergence	θ z	20	35	45	deg	Po=5mW	
Slope Efficiency (mW/mA)	0	0.1	0.3	0.6	-	-	
Monitor current	Im	10	100	200	μ A	Po=5mW, Vr=5V	
Astigmatism	As	-	11	-	μ m	Po=5mW	
MTTF			3000-5,000 hrs.			Po=5mW, NA=0.4	
Emitter Size	1 x 4 Microns						
Emitter Distance to Cap Lens Structure	0.3mm						
	Index Guided						