

Excellent Integrated System Limited

Stocking Distributor

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[US-Lasers, Inc.](#)
[MM8505I](#)

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

US-Lasers: 850nm-5mW - Infrared Laser Diode and Infrared Diode Laser Module

Links to Laser Diode & Laser Module Configurations and Specifications >>>>>>>>>>

[Laser Diode](#)

[Laser Diode Module](#)

[Micro Laser Module](#)

[Variable Output Laser Diode Module](#)

MM850-5

Barrel Specs: <ul style="list-style-type: none"> 2 Pieces 12 - 56 Thread Size Dia: 6.4mm Length: 17mm 	Weight & Wire Lengths: <ul style="list-style-type: none"> Module with 6" wire leads - 49 grain wt.b Module without 6" wire leads - 42 grain wt Module with spring leads - 42 1/2 grain wt. Spring 2.4mm dia. 4mm long (trimmable) 	Lens Housing Specs: <ul style="list-style-type: none"> 12 - 56 Thread Size 3.0mm Aperture 4.0mm Plastic Lens
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INFRARED DIODE LASER ABSOLUTE MAXIMUM RATINGS - (Tc=25 °C)

TECHNICAL DATA for LASER DIODE <ul style="list-style-type: none"> Index Guided MQW Structure Wavelength: 850nm (Typ.) Optical Power: 5mW CW Threshold Current: 20mA (Typ.) Standard Package: 5.6mm 		
Infrared light output	850nm	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	2.0	2.4	2.7	V	Po=5mW	
Lasing wavelength	λ D	840	850	860	nm	Po=5mW	
Beam divergence	θ F	8	10	11	deg	Po=5mW	
Beam divergence	θ z	25	31	40	deg	Po=5mW	
Slope Efficiency (mW/mA)	0	0.4	0.5	0.7	-	-	
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						