

US-Lasers: 635nm-5mW - Red Laser Diode and Red Diode Laser Module

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DATA SHEETS MM635nm 5mWRED LASER MODULE		
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

RED LASER DIODE DATA SHEET

ABSOLUTE MAXIMUM RATINGS - (Tc=25 °C)

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TECHNICAL DATA Visible laser diode light output 635nm Optical power output 5mW CW Package Type 5.6mm Built-in photo diode for monitoring laser output	<p style="text-align: center;">Pin Out Diagram</p>
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Items	Symbols	Values	Unit
Optical output power	P _o	5	mW
Laser diode reverse voltage	V	2	V
Photo diode reverse voltage	V	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	P _o	-	-	5	mW	Kink free
Threshold current	I _{th}	30	35	45	mA	P _o =5mW
Operating current	I _{op}	-	45	70	mA	P _o =5mW
Operating voltage	V _{op}	-	-	2.5	V	P _o =5mW
Lasing wavelength		630	635	645	nm	P _o =5mW
Beam divergence		5	8	11	deg	P _o =5mW

Beam divergence		25	31	37	deg	$P_o=5mW$
Off Axis Angle		-	-	+/-3	deg	
Off Axis Angle		-	-	+/-3	deg	
Monitor current	I_m	-	35	-	uA	$P_o=5mW, V_R=5V$
Astigmatism	A_s	-	11	-	um	$P_o=5mW, NA=0.4$
MTTF				3-5,000 hrs.		$P_o=5mW$
Emitter Size		10 x 60 Microns - Emitter Distance to Cap Lens = 0.3mm				
Structure		IIIGaInP MQW				