

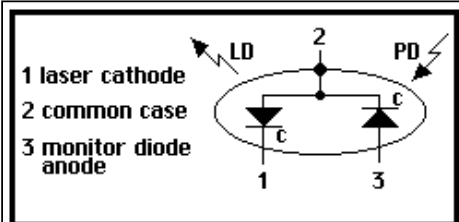
US-Lasers: 650nm-5mW - Red Laser Diode and Red Diode Laser Module

Links to Laser Diode & Laser Module Configurations and Specifications
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- [Laser Diodes](#) [Laser Diode Module](#) [Micro Laser Module](#) [Variable Output Laser Diode Module](#)
[D650-5](#) [M650-5](#) [MM650-5](#)

DATA SHEETS MM650nm 5mWRED LASER MODULE & DIODE		
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 ABSOLUTE MAXIMUM RATINGS - (Tc=25 °C)

TECHNICAL DATA Visible laser diode light output 650nm Optical power output 5mW CW Package Type 5.6mm Built-in photo diode for monitoring laser output	 <p>Pin Out Diagram - Style A</p>
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Items	Symbols	Values	Unit
Optical output power	Po	5	mW
Laser diode reverse voltage	V	2	V
Photo diode reverse voltage	V	30	V
Operating temperature	Topr	-10 ~ +60	°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	-	20	70	mA	-
Operating current	Iop	-	65	85	mA	Po=5mW
Operating voltage	Vop	-	2.7		V	Po=5mW
Lasing wavelength		640	650	660	nm	Po=5mW
Beam divergence		-	5	11	deg	Po=5mW
Beam divergence		-	25	37	deg	Po=5mW
Monitor current	Im	-	10	20	uA	Po=5mW
Astigmatism	As	-	11	-	um	Po=5mW
MTTF			3-5,000 hrs.			Po=5mW
Emitter Size	10 x 60 Microns - Emitter Distance to Cap Lens = 0.3mm					
Structure	Index Guided					