US-Lasers: 640nm-5mW - Red Laser Diode and Red Diode Laser Module

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

Laser Diodes | Laser Diode Module | Micro Laser Module | Variable Output Laser Diode Module

MM640-5

DATA SHEETS .... MM640nm 5mW ....RED LASER MODULE & DIODE

Barrel Specs:	Weight & Wire Lengths:	Lens Housing Specs:
• 2 Pieces • 12 - 56 Thread Size • Dia: 6.4mm • Length: 17mm	• 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)	• 12 - 56 Thread Size • 3.0mm Aperture • 4.0mm Plastic Lens

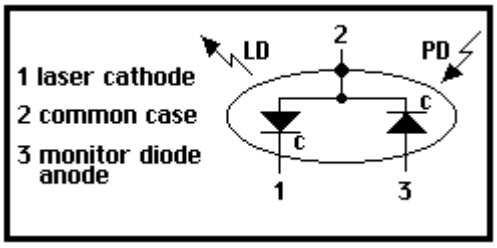
RED LASER DIODE DATA SHEET

ABSOLUTE MAXIMUM RATINGS - (Tc=25 ° C)

TECHNICAL DATA

Visible laser diode light output	640nm
Optical power output	5mW CW
Package Type	5.6mm

Built-in photo diode for monitoring laser output



Pin Out Diagram

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 ~ +50	°C
Storage temperature	Tstg	-40 ~ +85	°C

OPTICAL and ELECTRICAL CHARACTERISTICS - (Tc=25 ºC)

Items	Symbols	Min.	Typ.	Max.	Unit	Test Condition
Optical output power	Po	-	5	-	mW	-
Threshold current	Ith	-	30	65	mA	-
Operating current	Iop	-	55	75	mA	Po=5mW
Operating voltage	Vop	-	2.7	-	V	Po=5mW
Lasing wavelength		635	640	645	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					