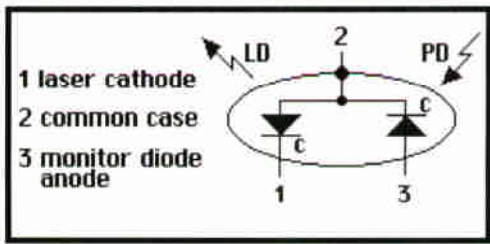


Back to **M650-5** **EPM650-5**

**DATA SHEETS .... EPM & M650nm 5mW ....RED LASER MODULE**

<b>Barrel Specs:</b>	<b>Collect Specs:</b>	<b>Lens Housing Specs:</b>
<ul style="list-style-type: none"> <li>• 3/8 - 56 Thread Size</li> <li>• Dia: 10.4mm</li> <li>• Length: 17mm</li> </ul>	<ul style="list-style-type: none"> <li>• 3/8 - 56 Thread Size</li> <li>• 4.3mm Aperture</li> <li>• Half Hard Brassbbb</li> </ul>	<ul style="list-style-type: none"> <li>• 3/8 - 56 Thread Size</li> <li>• 3.7mm Aperture</li> <li>• 7mm Plastic Lens</li> </ul>

**RED LASER DIODE ABSOLUTE MAXIMUM RATINGS - (Tc=25 °C)**

<b>TECHNICAL DATA</b>	
Visible light output	650nm
Optical power output	5mW CW
Package Type	5.6mm
Built-in photo diode for monitoring laser output	
	<b>Pin Out Diagram - Style A</b>

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	40	mA	-
Operating current	Iop	-	40	60	mA	Po=5mW
Operating voltage	Vop	-	2.7	-	V	Po=5mW
Lasing wavelength		645	650	655	nm	Po=5mW
Beam divergence		-	5	11	deg	Po=5mW
Beam divergence		-	25	37	deg	Po=5mW
Monitor current	Is	-	10	20	uA	Po=5mW
Astigmatism	As	-	11	-	um	Po=5mW
MTTF			10000 hrs			Po=5mW
Emitter Size	10 x 60 Microns - Emitter Distance to Cap Lens = 0.3mm					
Structure	Index Guided					