

US-Lasers: 650nm-5mW Samsung Visible Laser Diode Specifications

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Laser Module

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Configurations and
Specifications

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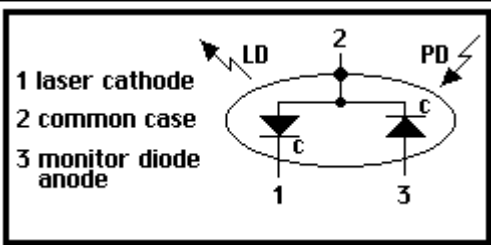
[EPSM650-5](#)

DATA SHEETS EPSM & SM650nm 5mWRED LASER MODULE

Barrel Specs:	Collect Specs:	Lens Housing Specs:
3/8 - 56 Thread Size - Dia: 10.4mm - Length: 17mm	3/8 - 56 Thread Size 4.3mm Aperture - Half Hard Brassbbb	3/8 - 56 Thread Size 3.7mm Aperture 7mm Plastic Lens

RED LASER DIODE DATA SHEET

ABSOLUTE MAXIMUM RATINGS (Tc=25 °C)

TECHNICAL DATA Visible laser diode light output 650nm Optical power output 5mW CW Package Type TO-18 Built-in photo diode for monitoring laser output		
		Pin Out Diagram - Style A

Items	Symbols	Values	Unit
Optical output power	Po	7	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	-	35	45	mA	-
Operating current	Iop	-	45	55	mA	Po=5mW
Operating voltage	Vop	-	2.2	2.6	V	Po=5mW
Lasing wavelength		640	655	658	nm	Po=5mW
Beam divergence		7	8	10	deg	Po=5mW
		22	30	38	deg	Po=5mW
Monitor current	Im	100	200	500	μA	Po=5mW