

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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

Links to Laser Diode &

Laser Module

Laser Diodes Laser Diode Module Micro Laser Module

Variable Output
Laser Diode Module

Configurations and

 Specifications
 SD650-5
 SM650-5
 MM650-5
 EPSM650-5

DATA SHEETS EPSM & SM650nm 5mWRED LASER MODULE						
Barrel Specs:	Collect Specs:	Lens Housing Specs:				
<ul><li> 3/8 - 56 Thread Size</li><li> Dia: 10.4mm</li><li> Length: 17mm</li></ul>	<ul><li>3/8 - 56 Thread Size</li><li>4.3mm Aperture</li><li>Half Hard Brassbbb</li></ul>	<ul><li>3/8 - 56 Thread Size</li><li>3.7mm Aperture</li><li>7mm Plastic Lens</li></ul>				

## **RED LASER DIODE DATA SHEET** ABSOLUTE MAXIMUM RATINGS (Tc=25 °C)

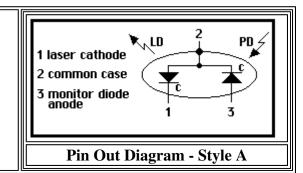


Visible laser diode light 650nm

output

Optical power output 5mW CW Package Type TO-18

Built-in photo diode for monitoring laser output



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

<b>OPTICAL and ELECTRICAL CHARACTERISTICS - (Tc=25 °C)</b>						
Items	Symbols	Min.	Тур.	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	μĀ	Po=5mW