



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 Configurations and Specifications
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[Laser Diodes](#)
 [Laser Diode Module](#)
 [Micro Laser Module](#)
 [Variable Output Laser Diode Module](#)

[SD650-5](#)
 [SM650-5](#)
 [MM650-5](#)
 [EPSM650-5](#)

| DATA SHEETS EPSM & SM650nm 5mWRED LASER MODULE | | |
|--|--|---|
| Barrel Specs: <ul style="list-style-type: none"> 3/8 - 56 Thread Size Dia: 10.4mm Length: 17mm | Collect Specs: <ul style="list-style-type: none"> 3/8 - 56 Thread Size 4.3mm Aperture Half Hard Brassbbb | Lens Housing Specs: <ul style="list-style-type: none"> 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 | <p>Pin Out Diagram - Style A</p> |
|---|---|

| 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 |