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Product Data Sheet

LED Lamp Infra Red

EOLD-1550-525

Rev. 01 aus 2011

| Radiation | Type | Case |
|-----------|------|------------------|
| Infra Red | MQW | 5mm plastic lens |

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| | <p>Description:</p> <p>High-power, high-speed infrared LED in standard 5mm package, housing without standoff leads</p> <p>for optical communications, safety equipment and automation</p> |
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Maximum Ratings

T_{amb} = 25°C, unless otherwise specified

| Parameter | Test Conditions | Symbol | Value | Unit |
|-----------------------|--|------------------|-------------|------|
| Forward Current | | I _F | 100 | mA |
| Peak forward current | (t _p ≤ 50 μs, t _p / T = 1/2) | I _{FM} | 200 | mA |
| Power dissipation | | P _D | 150 | mW |
| Operating temp. range | | T _{amb} | -20 to +80 | °C |
| Storage temp. range | | T _{stg} | -55 to +100 | °C |
| Lead soldering temp. | t < 5s, 3mm from case | T _{slg} | 260 | °C |

Optical and Electrical Characteristics

T_{amb} = 25°C, unless otherwise specified

| Parameter | Symbol | Conditions | Min | typ | max | Unit |
|---------------------------|---------------------------------|------------------------|------|------|------|------|
| Forward voltage | V _F | I _F = 20mA | | 0.75 | 0.9 | V |
| Forward voltage | V _F | I _F = 100mA | | 0.85 | | V |
| Reverse voltage | V _R | I _R = 10μA | 5 | | | V |
| Radiant Power | Φ _e | I _F = 20mA | 1.1 | 1.4 | | mW |
| Radiant Power | Φ _e | I _F = 100mA | | 5.0 | | mW |
| Peak wavelength | λ _p | I _F = 20mA | 1530 | 1550 | 1570 | nm |
| Spectral bandwidth at 50% | Δλ _{0,5} | I _F = 20mA | | 130 | | nm |
| Viewing angle | φ | I _F = 20mA | | 20 | | deg. |
| Switching time | t _r , t _f | I _F = 20mA | | 10 | | ns |



We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.