

SINGLE COLOR LED

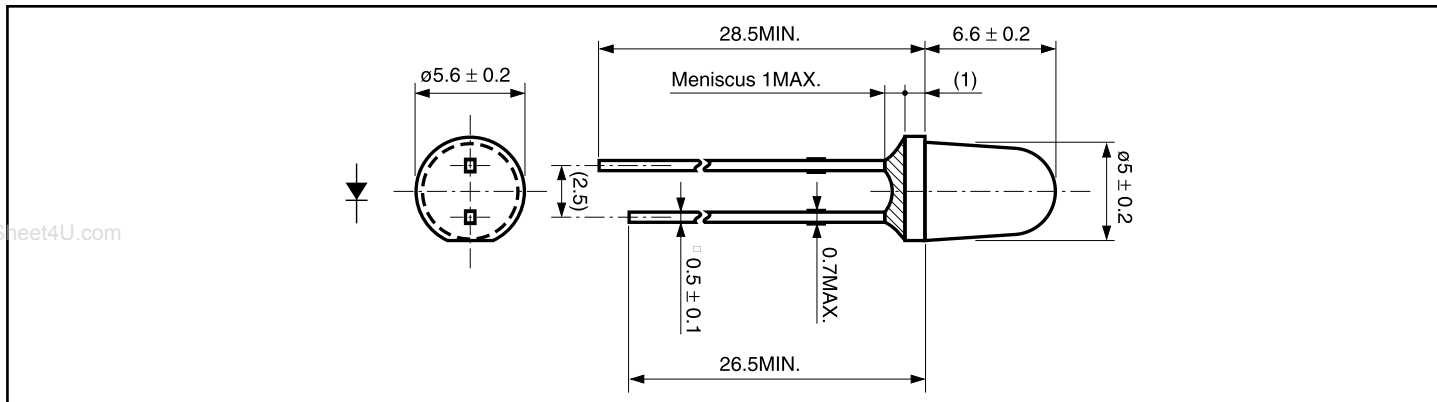
5mm Round Shape

5335S Series

STANDARD COLOR



Outline Dimensions



Absolute Maximum Ratings

(Ta=25°C)

| Item | Symbol | Red | | | Orange | Yellow | Yellow Green | Green | Pure Green | Units |
|-----------------------|--------|-------------|------|---------|---------|---------|--------------|---------|------------|-------|
| | | EBR, BR | PR | EVR, VR | EAA, AA | EAY, AY | EPY, PY | EPG, PG | EBG, BG | |
| Power Dissipation | Pd | 100 | 75 | 75 | 125 | 125 | 125 | 125 | 125 | mW |
| Forward Current | If | 50 | 30 | 30 | 50 | 50 | 50 | 50 | 50 | mA |
| Peak Forward Current | IfM | 300 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | mA |
| Reverse Voltage | VR | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | V |
| Operating Temperature | Topr | -30 to +85 | | | | | | | | °C |
| Storage Temperature | Tstg | -30 to +100 | | | | | | | | °C |
| Derating (DC)* | If | 0.67 | 0.33 | | | 0.67 | | | | mA/°C |

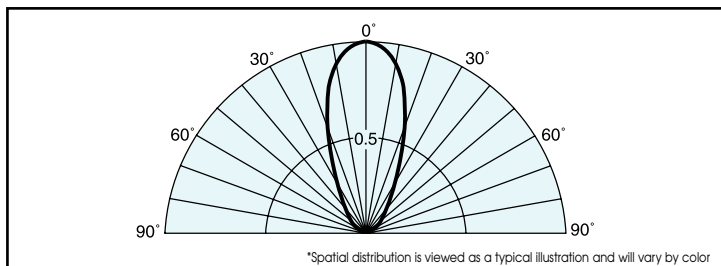
* Ta=25°C, IfM applies for the pulse width 1msec, and duty cycle 1/20
The current derating for operation applies when the temperature is above 25°C

Electro-Optical Characteristics

*The viewing angle is an average and will vary by color (Ta=25°C)

| Part No. | Material | Emitted Color | Lens Color | Luminous Intensity I _v | | | Wavelength Spectral Line Dominant Half Width | | | | Forward Voltage V _f | | | Reverse Current I _r | | Viewing Angle (2 1/2) | |
|-------------|----------|---------------|-----------------|-----------------------------------|-------|----|--|--------|------|----|--------------------------------|------|----|--------------------------------|----|-----------------------|---|
| | | | | MIN. | TYP. | If | Peak P TYP. | D TYP. | TYP. | If | TYP. | MAX. | If | MAX. | VR | | |
| | | | | | | | nm | | | | V | | mA | | V | | |
| EBR/BR5335S | GaAlAs | Red | Diffused Red | 12/6 | 18/12 | 20 | 660 | 647 | 30 | 20 | 1.7 | 2.0 | 20 | 100 | 4 | 45° | |
| PR5335S | GaP | | | 2.5 | 5 | 10 | 700 | 635 | 100 | 10 | 2.1 | 2.5 | 10 | 100 | 4 | | |
| EVR/VR5335S | GaAsP | | | 12/6 | 18/12 | 20 | 630 | 624 | 30 | 20 | 2.0 | 2.5 | 20 | 100 | 4 | | |
| EAA/AA5335S | GaAsP | Orange | Diffused Orange | 20/10 | 30/20 | 20 | 605 | 606 | 30 | 20 | 2.2 | 2.5 | 20 | 100 | 4 | | |
| EAY/AY5335S | GaAsP | Yellow | Diffused Yellow | 20/10 | 30/20 | 20 | 580 | 590 | 30 | 20 | 2.2 | 2.5 | 20 | 100 | 4 | | |
| EPY/PY5335S | GaP | Yellow Green | Diffused Yellow | 30/15 | 45/30 | 20 | 570 | 572 | 30 | 20 | 2.1 | 2.5 | 20 | 100 | 4 | | |
| EPG/PG5335S | GaP | Green | Diffused Green | 24/12 | 36/24 | 20 | 560 | 567 | 30 | 20 | 2.1 | 2.5 | 20 | 100 | 4 | | |
| EBG/BG5335S | GaP | Pure Green | Diffused Green | 8/4 | 12/8 | 20 | 555 | 558 | 30 | 20 | 2.1 | 2.5 | 20 | 100 | 4 | | |
| Units | | | | mcd | mA | | nm | | | | V | | mA | | μA | | V |

Spatial Distribution (x)



Operation Current Derating Chart

