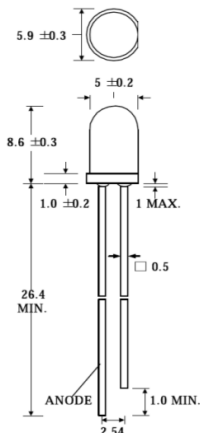


Product Data Sheet

LED Lamp ultra violet

MT5385-UV

| Radiation | Type | Case |
|--------------|-----------|------------------|
| ultra violet | InGaN/SiC | 5mm plastic lens |

| Notes: | | Description: |
|--|--|--|
|  | <p>1. All dimensions are in millimeter</p> <p>2. Lead spacing is measured where the lead emerge from the package</p> | <p>Super bright LED lamp, round type, 5mm diameter, lens color: Water Clear with flange, housing without standoff leads, complaint with RoHS</p> |
| | | |

Maximum Ratings

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

| Parameter | Test Conditions | Symbol | Value | Unit |
|-----------------------|-------------------------|------------------|-------------|------|
| Forward Current | | I _F | 30 | mA |
| Peak forward current | (1/10 Duty Cycle @1KHz) | I _{FM} | 100 | mA |
| Power dissipation | | P _D | 120 | mW |
| Operating temp. range | | T _{amb} | -40 to +85 | °C |
| Storage temp. range | | T _{stg} | -40 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 | | 3.2 | 3.8 | V |
| Reverse voltage | V _R | I _R = 10µA | 5 | | | V |
| Luminous intensity | I _v | I _F = 20mA | 15 | 23 | | mcd |
| Peak wavelength | λ _p | I _F = 20mA | 380 | 385 | 390 | nm |
| Dominant Wavelength | λ _D | I _F = 20mA | 390 | 400 | 410 | nm |
| Spectral bandwidth at 50% | Δλ _{0,5} | I _F = 20mA | | 30 | | nm |
| Viewing angle | φ | I _F = 20mA | | 30 | | deg. |

Tolerance of Viewing Angle: -10/+5deg.

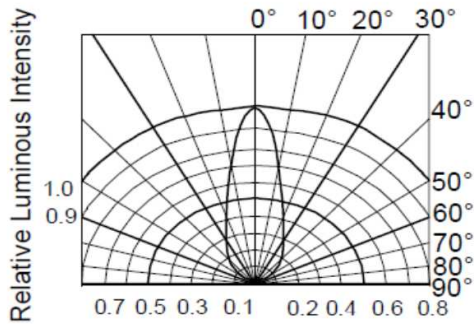
page 1/2

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.

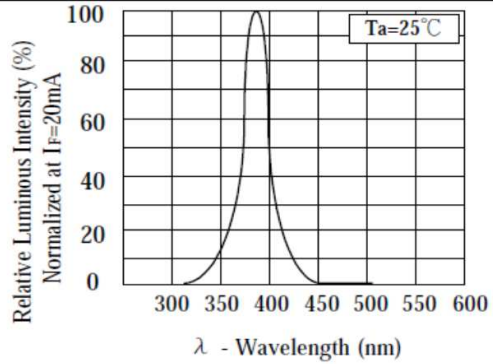
Product Data Sheet

LED Lamp ultra violet

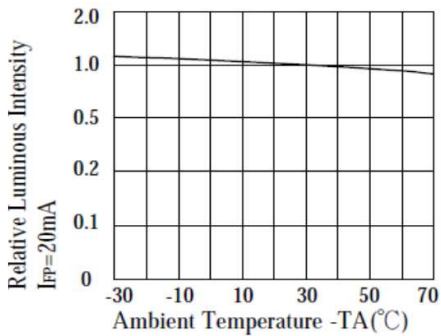
AH' ,) !! J



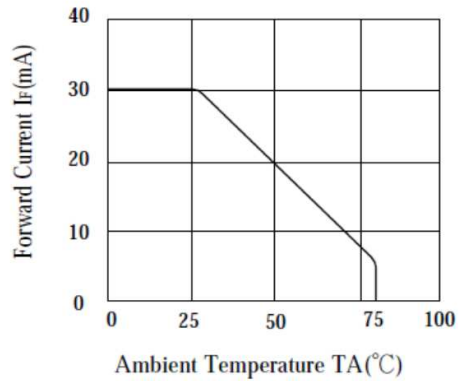
RADIATION DIAGRAM



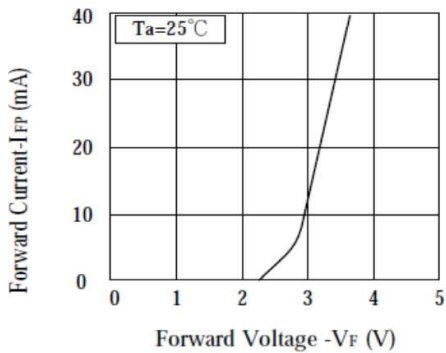
RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH



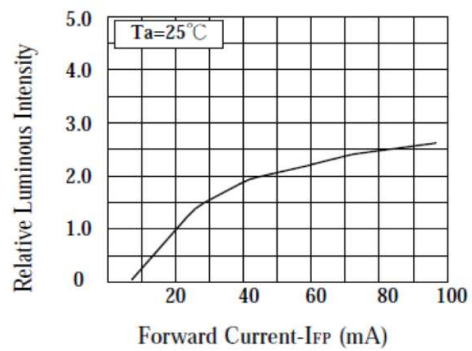
LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



MAX FORWARD CURRENT Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT