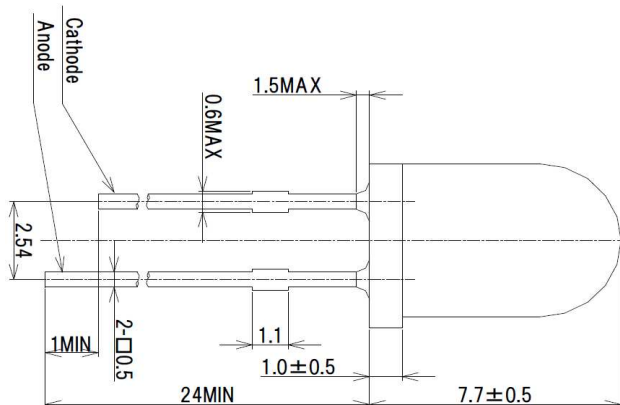


Data sheet

UV LED

EOLD-375-525

| Radiation | Type | Case |
|-------------|-------|-------------------|
| Ultraviolet | InGaN | 5 mm plastic lens |

| Description: | |
|--|---|
|  | <p>High power, high-speed, narrow beam angle, high reliability</p> <p>Dimension in mm</p> |

Maximum Ratings

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

| Parameter | Test Conditions | Symbol | Value | Unit |
|-----------------------------|------------------------|------------------|------------|------|
| Forward current | | I _F | 25 | mA |
| Peak forward current | t < 0.1 ms, t/T < 1/10 | I _{FM} | 100 | mA |
| Power dissipation | | P _D | 100 | mW |
| Operating temperature range | | T _{amb} | -30 to +80 | °C |
| Storage temperature range | | T _{stg} | -30 to +85 | °C |
| Lead soldering temperature | < 5 s, 3 mm 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 = 20 mA | 3.2 | 3.6 | 4.2 | V |
| Radiant power | Φ _e | I _F = 20 mA | 8.4 | | 14 | mW |
| Peak wavelength | λ _p | I _F = 20 mA | 375 | | 380 | nm |
| Viewing angle | φ | I _F = 20 mA | | 15 | | deg. |
| FWHM | Δλ _{0,5} | I _F = 20 mA | 10 | | 20 | nm |

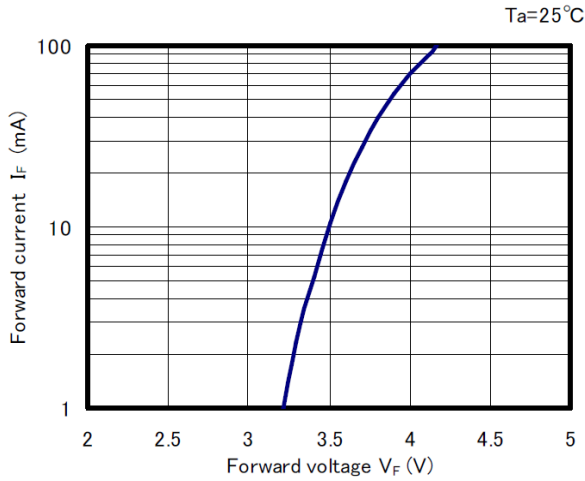


Data sheet

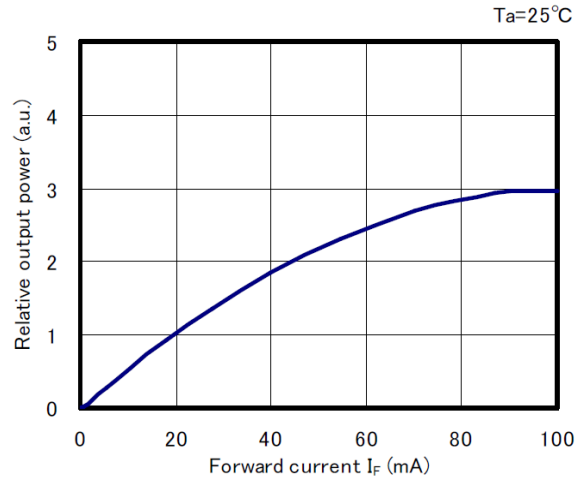
UV LED

EOLD-375-525

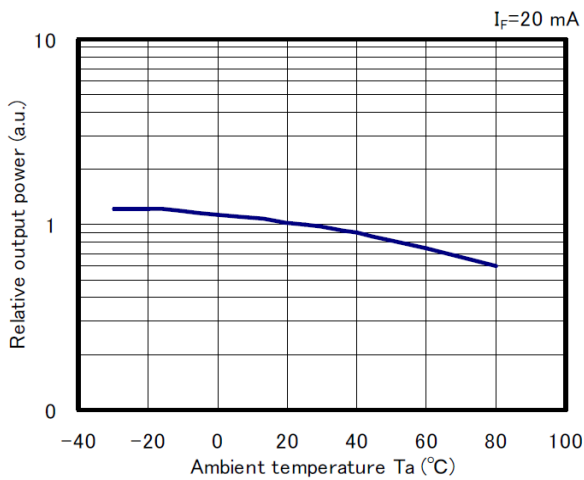
■ Forward voltage vs. Forward current



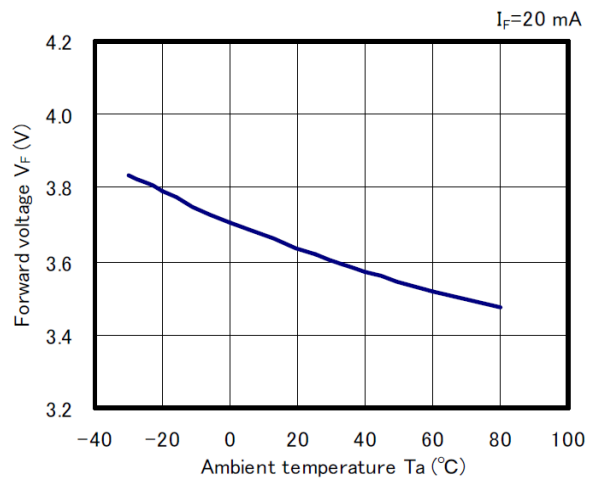
■ Forward current vs. Relative output power



■ Ambient temperature vs. Relative output power



■ Ambient temperature vs. Forward voltage

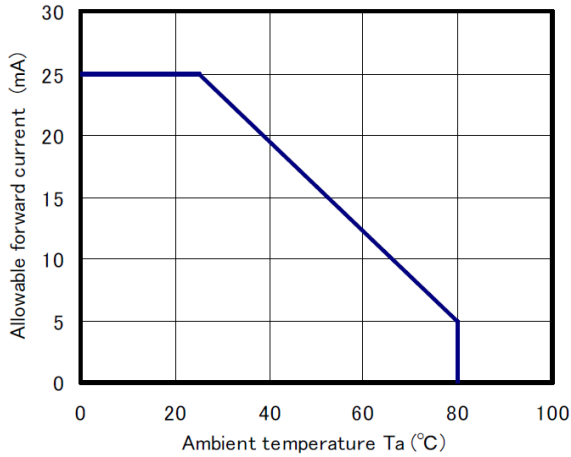


Data sheet

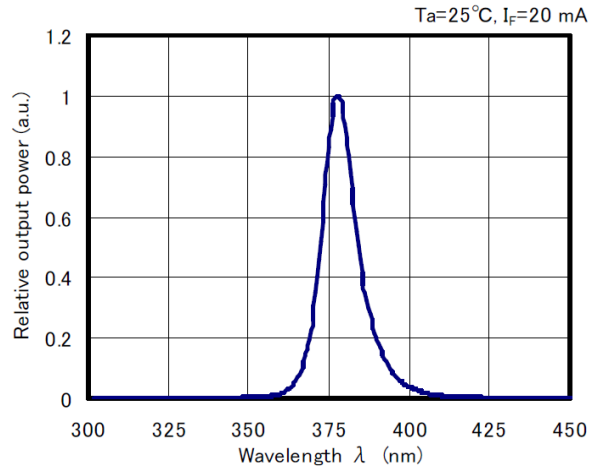
UV LED

EOLD-375-525

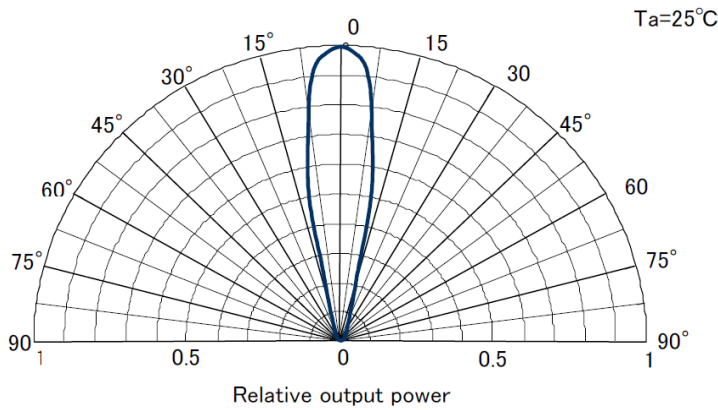
■ Ambient temperature vs.
Allowable forward current



■ Spectrum



■ Directivity



Art. No. 132 003



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.