

SELECTOR GUIDE

| Part Number | Dice | Lens Color / Type | Pack Size | View Angle 2θ 1/2 |
|--------------|--------|-------------------|------------------|-------------------|
| MTB10000-O-A | Orange | White Diffused | Bar Graph 10 Seg | 0 ° |

ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25°C

| Parameter | Symbol | Device | Min. | Typ. | Max. | Units | Test Conditions |
|--------------------------|-------------------|--------|------|------|------|-------|-----------------|
| Forward Voltage | V _F | Orange | - | 2.1 | 2.6 | V | 10mA |
| Reverse Current | I _R | Orange | - | - | 100 | μA | 5V |
| Luminous Intensity | I _v | Orange | 1.6 | 3.9 | - | mcd | 10mA |
| Peak Wavelength | λ _{peak} | Orange | - | 635 | - | nm | 20mA |
| Dominant Wavelength | λ _D | Orange | - | 626 | - | nm | 20mA |
| Spectral Line Half-Width | Δλ _{1/2} | Orange | - | 35 | - | nm | 20mA |

ABSOLUTE MAXIMUM RATINGS AT T_A=25°C

| Parameter | Rating | Units |
|--|----------------------|-------|
| Forward Current (I _F) | 30 | mA |
| Power Dissipation (P _D) | 78 | mW |
| Reverse Voltage (V _R) | 5 | V |
| Operating Temperature (T _{OPR}) | -25 ~ +85 | °C |
| Storage Temperature (T _{STG}) | -40 ~ +100 | °C |
| Lead Solder Temperature (T _{SOL}) | 260 @ for 5 sec. max | |

- All Dimensions Are In Millimeters (inches).
- Tolerance Is +0.25(0.01") Unless Otherwise Noted.
- Specifications Are Subject To Change Without Notice.

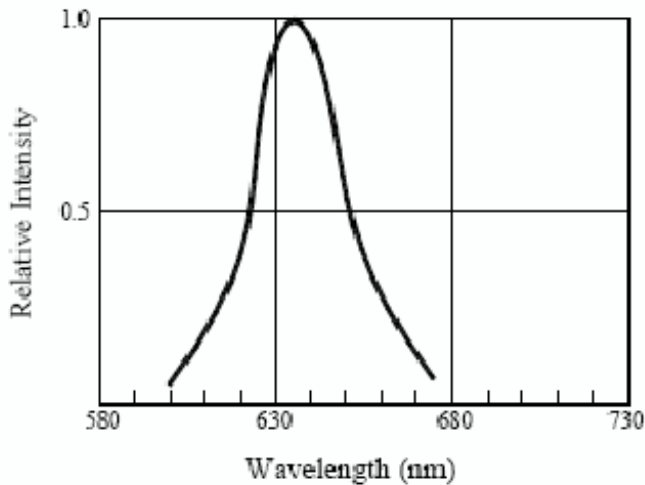


Fig.1 RELATIVE INTENSITY VS. WAVELENGTH

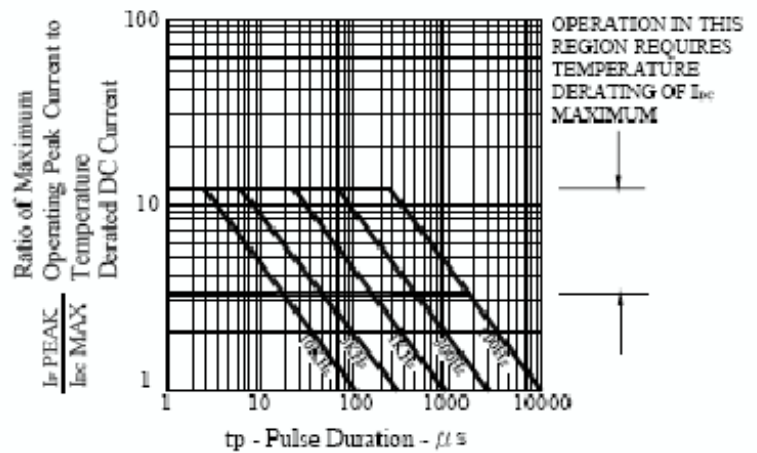


Fig.2 MAXIMUM TOLERABLE PEAK CURRENT VS. PULSE DURATION

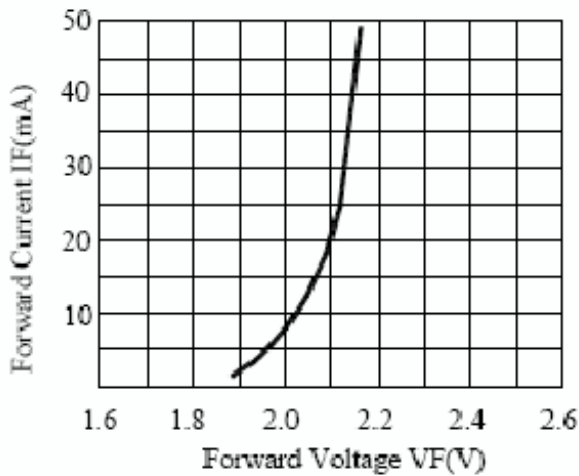


Fig.3 FORWARD CURRENT VS. FORWARD VOLTAGE PER CHIP

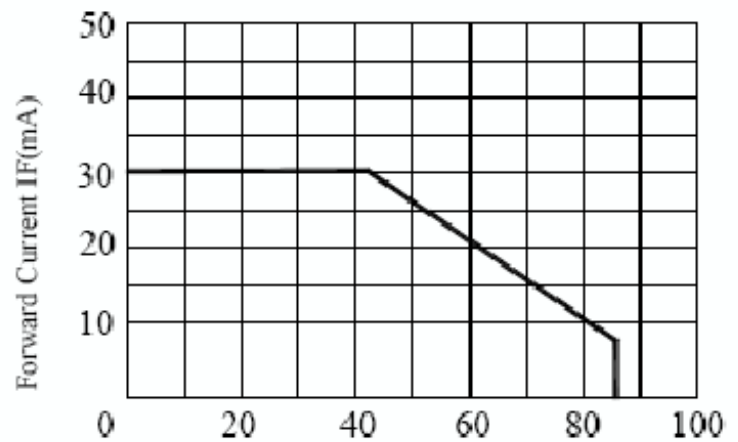


Fig.4 FORWARD CURRENT VS. DERATING CURVE

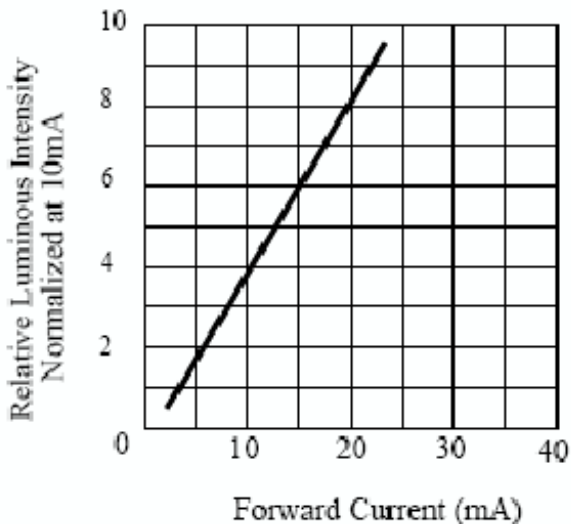


Fig.5 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

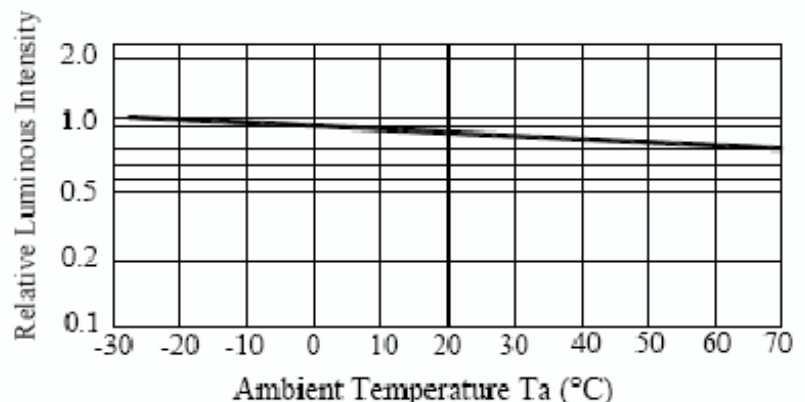


Fig.6 LUMINOUS INTENSITY VS. AMBIENT TEMPERATURE

