

Feature

- § Low Power Consumption
- § I.C. compatible

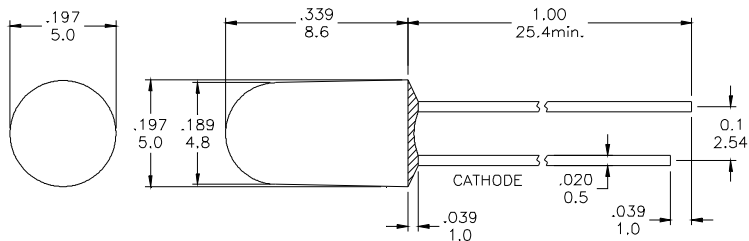
Applications

- § Commercial Outdoor Sign Board
- § Front Panel Indicator
- § Dot-Matrix Module
- § LED Bulb

Description

- § These LEDs are Based on GaAsP/GaP Material Technology
- § Emitted color: Yellow
- § Yellow Diffusion Lens

Package Dimension



* Tolerance : $\pm \frac{0.01}{0.25}$ Unit : $\pm \frac{\text{inch}}{\text{mm}}$

Absolute Maximum Ratings at Ta=25°C

| Symbol | Parameter | Max. | Unit |
|--------|---------------------------------------|--------------|-------|
| PD | Power Dissipation | 100 | mW |
| VR | Reverse Voltage | 5 | V |
| IAF | Average Forward Current | 30 | mA |
| IPF | Peak Forward Current (Duty=0.1, 1kHz) | 100 | mA |
| — | Derating Linear Form 25°C | 0.4 | mA/°C |
| Topr | Operating Temperature Range | -20 to + 80 | °C |
| Tstg | Storage Temperature Range | -20 to + 100 | °C |

Lead Soldering Temperature [1.6mm (0.063inch) From Body] 260°C For 5 Seconds.

Electrical / Optical Characteristics and Curves at Ta=25°C

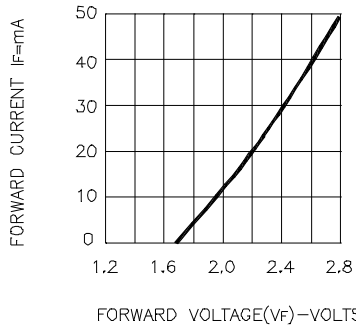
| Symbol | Parameter | Test Condition | Min. | Typ. | Max. | Unit |
|-----------------|----------------------|----------------|------|------|------|------|
| VF | Forward Voltage | IF= 20 mA | | 2.0 | 2.4 | V |
| IR | Reverse Current | VR= 5 V | | | 100 | μ A |
| $\Delta \theta$ | Half Intensity Angle | IF= 20 mA | | 60 | | Deg. |
| IV | Luminous Intensity | IF= 20 mA | | 80 | | mcd. |
| λd | Dominant Wavelength | IF= 20 mA | | 590 | | nm |

Specific binning requirements –please contact our home office

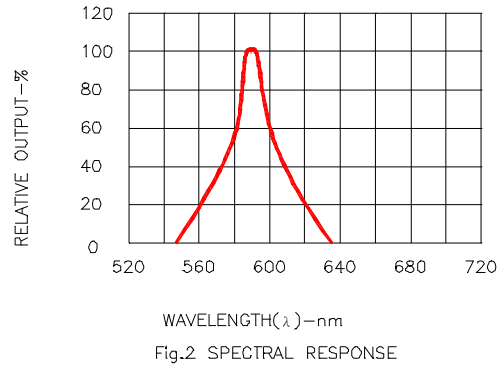


YELLOW

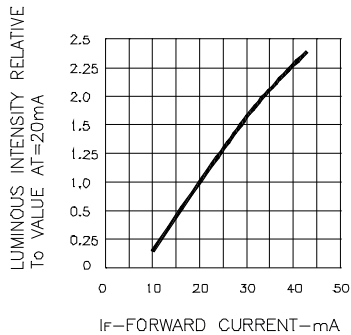
Typical Electro-optical Characteristic Curves (25°C Free Air Temperature Unless Otherwise Specified)



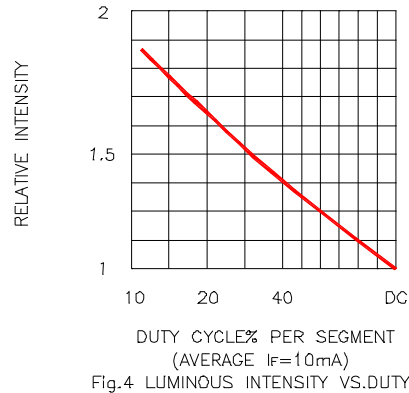
FORWARD VOLTAGE(Vf)-VOLTS
Fig.1 FORWARD CURRENT VS FORWARD VOLTAGE



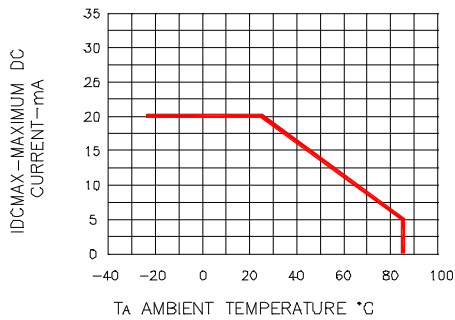
WAVELENGTH(λ)-nm
Fig.2 SPECTRAL RESPONSE



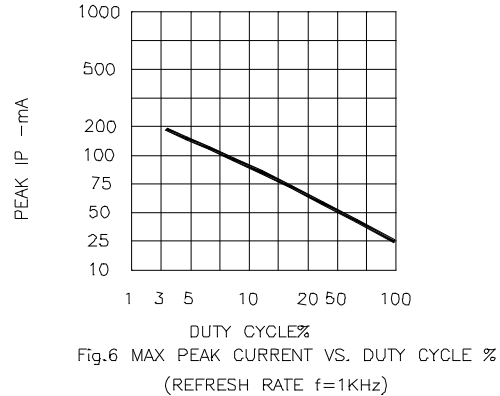
If-FORWARD CURRENT-mA
Fig.3 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



DUTY CYCLE% PER SEGMENT (AVERAGE If=10mA)
Fig.4 LUMINOUS INTENSITY VS. DUTY CYCLE



Ta AMBIENT TEMPERATURE °C
Fig.5 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE



DUTY CYCLE%
Fig.6 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE f=1KHz)