

SUPER BRIGHT T-1 (3mm) LED LAMP - Water Clear

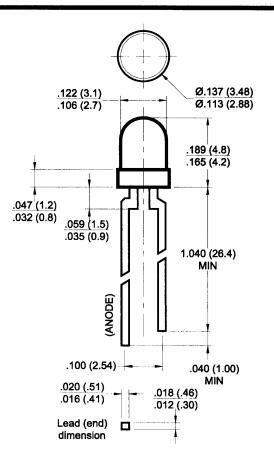
AlInGaP Red

MV7042

MV7043

MV7044

PACKAGE DIMENSIONS



DESCRIPTION

These T-1 LEDs have a wide viewing angle of 60° and are encapsulated in an epoxy package with a water clear lens. They are constructed with AllnGaP LEDs and emit a peak wavelength of 645 nm.

FEATURES

- Popular T-1 package.
- Low drive current.
- •Solid State reliability.
- •Super high brightness suitable for outdoor applications.
- Water clear optics.
- Standard 100 mil. Lead spacing.

Note: 1) All dimensions are in inches (mm).

- 2) Lead spacing is measured where the leads emerge from the package.
- 3) Protruded resin under the flange is 1.5mm (0.059") max.

ABSOLUTE MAXIMUM RATINGS (TA=25°C unless otherwise specified)

| DC forward current (I _F) Peak forward current (I _F) @ f = 1.0 KHz, Duty factor = 1/10 | 160 mA |
|--|-----------------|
| Power dissipation (P _d) Reversed voltage (V _R) I _R = 10 μA | |
| Operating temperature range | -40°C to +100°C |
| Lead soldering time | |

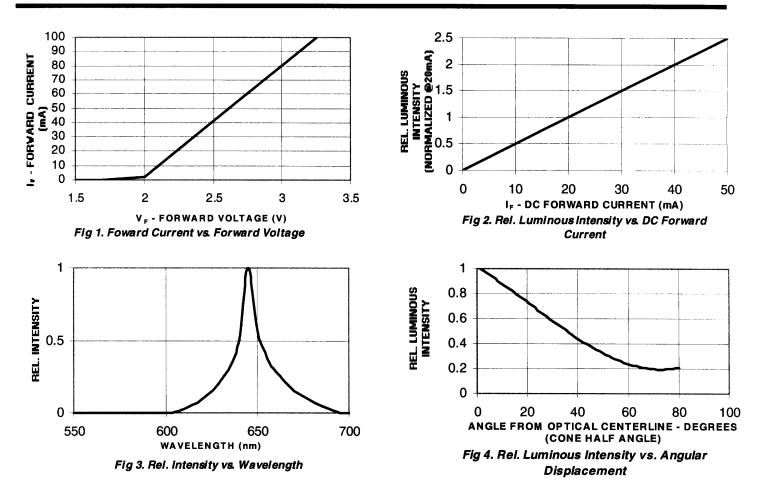


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ELECTRO-OPTICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

| Part Number: | <u>MV7042</u> | <u>MV7043</u> | <u>MV7044</u> | Test <u>Condition</u> |
|-----------------------------------|---------------|---------------|---------------|--------------------------|
| Luminous intensity (mcd) | | | | I _F = 20 mA |
| Minimum | 100 | 160 | 250 | |
| Typical | 150 | 240 | 375 | |
| Forward voltage (V _F) | | | | I _F = 20 mA |
| Typical | 2.1 | 2.1 | 2.1 | |
| Maximum | 2.8 | 2.8 | 2.8 | |
| Peak Wavelength | 645 | 645 | 645 | I _F = 20 mA |
| Spectral line half width (nm) | 20 | 20 | 20 | I _F = 20 mA |
| Viewing angle | 60 | 60 | 60 | I _F = 20 mA |

TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES (TA = 25°C)





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