

3) Protruded resin under the flange is 1.5mm (0.059") max.

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

| DC forward current (I _F) | 30 mA |
|--|-----------------|
| Peak forward current (I _F) @ f = 1.0 KHz, Duty factor = 1/10 | 160 mA |
| Power dissipation (P _d) | 85 mW |
| Reversed voltage (V _R) I _R = 10 µA | |
| Operating temperature range | -40°C to +100°C |
| Storage temperature range | |
| Lead soldering time | |
| | |



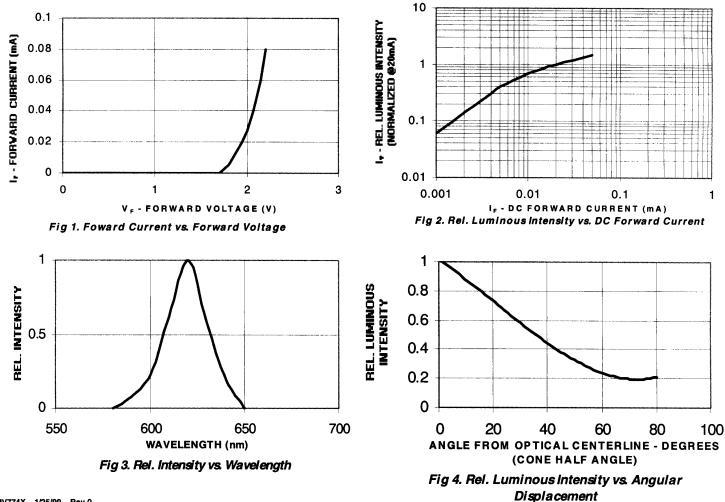


SUPER BRIGHT T-1 (3mm) LED LAMP - Water Clear

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

| Part Number: | <u>MV7742</u> | <u>MV7743</u> | <u>MV7744</u> | Test <u>Condition</u> |
|-----------------------------------|---------------|---------------|---------------|--------------------------|
| Luminous intensity (mcd) | | | | l _F = 20 mA |
| Minimum | 100 | 160 | 250 | |
| Typical | 150 | 240 | 375 | |
| Forward voltage (V _F) | | | | l _F = 20 mA |
| Typical | 2.1 | 2.1 | 2.1 | |
| Maximum | 2.8 | 2.8 | 2.8 | |
| Peak Wavelength | 620 | 620 | 620 | l _F = 20 mA |
| Spectral line half width (nm) | 25 | 25 | 25 | l _F = 20 mA |
| Viewing angle | 60 | 60 | 60 | l _F = 20 mA |

TYPICAL ELECTRO-OPTICAL CHARACTERISTIC CURVES $(T_{A} = 25^{\circ}C)$





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

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION OR DESIGN. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE PRESIDENT OF FAIRCHILD SEMICONDUCTOR CORPORATION. As used herein:

- Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury of the user.
- 2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.