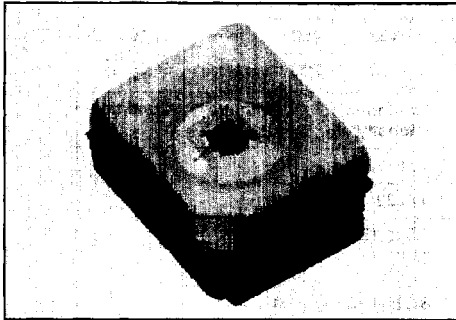


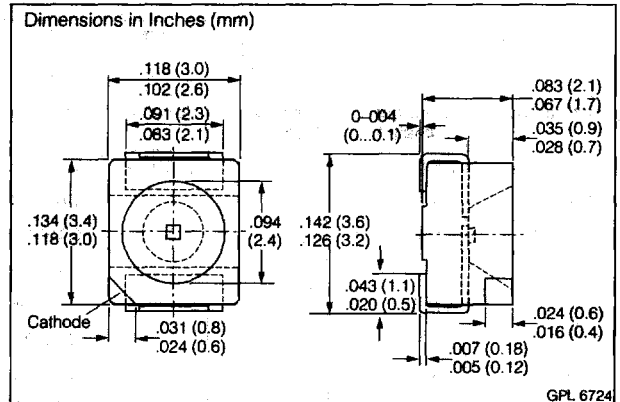
SIEMENS

SUPER-RED LS T672
ORANGE LO T672
YELLOW LY T672
GREEN LG T672
PURE GREEN LP T672
High Current Super TOPLED® Lamp



FEATURES

- **TOPLED:** surface mount LED lamp
- **PL-CC-2** package
- **White package, colorless clear window**
- **Use as optical indicator**
- **Appropriate for high ambient light due to high operating current (≤ 50 mA DC)**
- **For backlighting, optical coupling into light pipes and lenses**
- **Suitable for all SMT assembly and soldering methods**
- **Available taped on reel (8 mm tape)**
- **Load dump resistant acc. to DIN 40839**



DESCRIPTION

The LX T672 (Super TOPLED for surface mount applications) is available in super-red, orange, yellow, green, and pure green. The package incorporates an internal reflector to optimize light coupling. This feature makes the TOPLED ideal for light pipe applications.

The large LED chip allows the part to be driven at a current of 50 mA for increased luminous intensity.

Maximum Ratings

| | | |
|--|-------|---------------|
| Operating/Storage Temperature Range (T_{OP} T_{STG}) | | -55 to +100°C |
| Junction Temperature (T_J) | | +100°C |
| Forward Current (I_F) | | 50 mA |
| Surge Current (I_{FM}) $\leq 10 \mu s$, $D=0.005$ | | 1 A |
| Reverse Voltage (V_R) | | 5 V |
| Power Dissipation (P_{TOT}) | | 190 mW |
| Thermal Resistance, Junction Air, Mounted on PC Board ⁽¹⁾ , pad size 16 mm ² (R_{THJA}) | | 300 K/W |

1. PC board FR4

See graph numbers OHL01698, OHL01660, OHL01626, OHL02152, OHL02254, OHL00243, OHL02104, OHL02105, OHL01696, OHL02154 beginning on page 4-92.

Characteristics (T_A=25°C) All values typical unless otherwise noted

| Parameter | Symbol | Super-Red | Orange | Yellow | Green | Pure Green | Unit | Condition |
|--|--|-------------------------------------|-----------------------|------------|--|-------------------------------------|-----------------------|--|
| Peak Wavelength | λ_{PEAK} | 635 | 610 | 586 | 565 | 557 | nm | I _F =10 mA |
| Dominant Wavelength | λ_{DOM} | 628 | 605 | 590 | 570 | 560 | | |
| Spectral Bandwidth, 50% I _{RELMAX} | $\Delta\lambda$ | 45 | 40 | 45 | 25 | 22 | | |
| Viewing Angle, 50% I _v | 2 ϕ | 120 | | | | | Deg. | |
| Forward Voltage | V _F | 2.0 (≤3.8) | 2.1 (≤3.8) | 2.2 (≤3.8) | 2.6(≤3.8) | 2.6(≤3.2) | V | I _F =50 mA |
| Reverse Current | I _R | 0.01 (≤10) | | | | | μA | V _R =5 V |
| Capacitance | C ₀ | 40 | 35 | | 60 | 80 | pF | V _R =0 V f=1 MHz |
| Switching Time, I _v 10% to 90% 90% to 10% | t _R t _F | 350 200 | 500 250 | 350 200 | 500 250 | | ns | I _F = 100 mA t _p = 10 μs R _L = 50 Ω |
| Part No. | Luminous Intensity ⁽¹⁾ , I _v , mcd | Luminous Flux, Φ _v , mlm | Condition | Part No. | Luminous Intensity ⁽¹⁾ , I _v , mcd | Luminous Flux, Φ _v , mlm | Condition | |
| *LST672-LP | 10 to 80 | — | I _F =50 mA | LG T672-MQ | 16 to 125 | — | I _F =50 mA | |
| *LST672-N | 25 to 50 | 100 | | LG T672-N | 25 to 50 | 100 | | |
| *LST672-P | 40 to 80 | 180 | | LG T672-P | 40 to 80 | 180 | | |
| *LST672-NR | 25 to 200 | — | | LG T672-Q | 63 to 125 | 300 | | |
| *LOT672-MQ | 16 to 125 | — | | LG T672-NR | 25 to 200 | — | | |
| *LOT672-N | 25 to 50 | 100 | | LPT672-KN | 6.3 to 50 | — | | |
| *LOT672-P | 4 to 80 | 180 | | LP T672-L | 10 to 20 | 45 | | |
| *LOT672-NR | 25 to 200 | — | | LP T672-M | 16 to 32 | 75 | | |
| *LYT672-LN | 10 to 80 | — | | LP T672-N | 25 to 50 | 100 | | |
| *LYT672-N | 25 to 50 | 100 | | LP T672-LP | 10 to 80 | — | | |
| *LYT672-P | 40 to 80 | 180 | | | | | | |
| *LYT672-NR | 25 to 200 | — | | | | | | |

*Not for new design

Note

1. Luminous intensity ratio in one packaging unit I_{VMAX}/I_{VMIN}≤2.0.