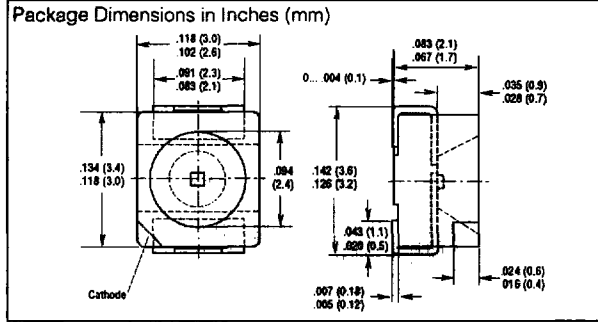
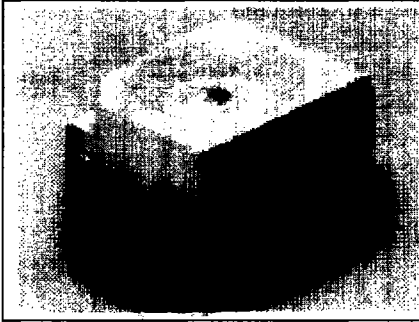


# SIEMENS

**SUPER-RED LS T672-MO**  
**ORANGE LO T672-MO**  
**YELLOW LY T672-MO**  
**GREEN LG T672-MO**  
**PURE GREEN LP T672-LO**

**Super-TOP-LED®, Surface Mount LED Lamp**



## FEATURES

- PL-CC-2 Package
- Internal Reflector
- Colorless Clear Window
- Low Power Dissipation
- Wide Viewing Angle
- Compatible with Automatic Placement Equipment
- Suitable for Vapor-Phase Reflow, Infrared Reflow and Wave Solder Processes
- Ideal for Backlight and Light Pipe Applications

## DESCRIPTION

The LX T672 (Super-TOP-LED 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 SMT-TOP-LED 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 Temperature Range ( $T_{OP}$ )	-55°C to + 100°C
Storage Temperature Range ( $T_{STG}$ )	-55°C to + 100°C
Junction Temperature ( $T_J$ )	+ 100°C
Forward Current ( $I_F$ )	50 mA
Surge Current ( $I_{FS}$ ) $t_p=10 \mu s$	1 A
Reverse Voltage ( $V_R$ )	5 V
Power Dissipation ( $P_{TOT}$ ) $T_A \leq 25^\circ C$	190mW
Thermal Resistance, Junction to Ambient <sup>(1)</sup>	300 K/W

Note: 1. Soldered on PC board: pad size  $\geq 16 \text{ mm}^2$ .

## Characteristics ( $T_A=25^\circ C$ )

Parameter	Symbol	Super-				Pure Green	Unit
		Red	Orange	Yellow	Green		
Peak Wavelength (typ.) ( $I_F=10 \text{ mA}$ )	$\lambda_{PEAK}$	635	610	586	565	557	nm
Dominant Wavelength (typ.) ( $I_F=10 \text{ mA}$ )	$\lambda_{DOM}$	628.	605	590	570	560	nm
Spectral Bandwidth (typ.) 50%, $I_V$ ( $I_F=10 \text{ mA}$ )	$\Delta\lambda$	45	40	45	25	22	nm
Viewing Angle 50%, $I_V$	$2\phi$	120	120	120	120	120	Deg.
Forward Voltage ( $I_F=50 \text{ mA}$ )	$V_F$	2.4 ( $\leq 3.8$ )	2.4 ( $\leq 3.8$ )	2.4 ( $\leq 3.8$ )	2.4 ( $\leq 3.8$ )	2.5 ( $\leq 3.8$ )	V
Reverse Current ( $V_R=5 \text{ V}$ )	$I_R$	0.01 ( $\leq 10$ )	0.01 ( $\leq 10$ )	0.01 ( $\leq 10$ )	0.01 ( $\leq 10$ )	0.01 ( $\leq 10$ )	$\mu A$
Capacitance (typ.) ( $V_F=0 \text{ V}$ , $f=1 \text{ MHz}$ )	$C_0$	40	35	35	60	80	pF
Response Time ( $I_F=100 \text{ mA}$ , $t_p=10 \mu s$ , $R_L=50 \Omega$ )							
Rise Time/ $I_V$ , 10%-90%	$t_R$	350	500	350	500	500	ns
Fall Time/ $I_V$ , 90%-10%	$t_F$	200	250	200	250	250	ns
Luminous Intensity (mcd)* ( $I_F=50 \text{ mA}$ )							
Part Number		Min.	Typ.	Unit			
LS/LO/LY/LG T672-MO		16	30	mcd			
LP T672-LO		10	20	mcd			

\* Luminous intensity factor of  $I_V$  of one packaging unit  $I_{VMAX}/I_{VMIN} \geq 2$ .

See graph numbers 1, 2V, 3F, 4F, 5D, 6H, 7A, 8A, 9D, 10E in the back of this section.