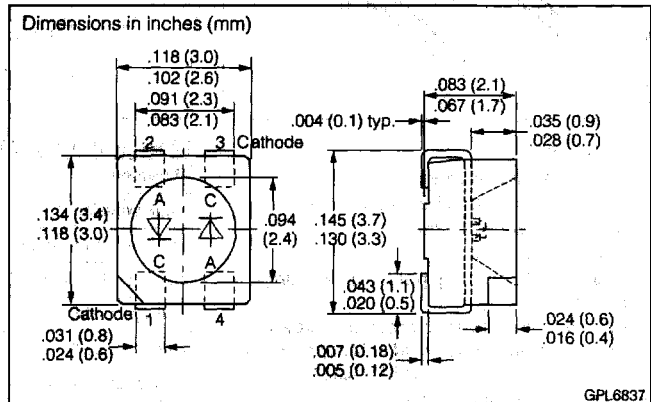
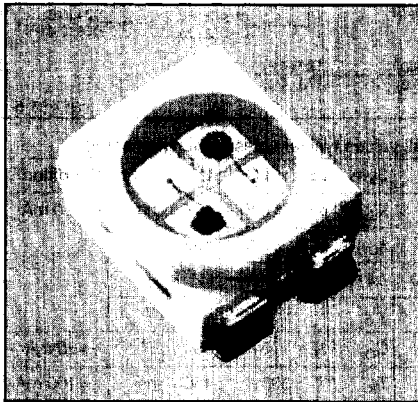


SIEMENS

SUPER-RED/PURE GREEN LSP T672
ORANGE/YELLOW LOY T672
ORANGE/PURE GREEN LOP T672
SUPER-RED/GREEN LSG T672
ORANGE/GREEN LOG T672
YELLOW/PURE GREEN LYP T672
High Current Super Multi TOPLED® Lamp



FEATURES

- **TOPLED: surface mount LED lamp**
- **P-LCC-4 package**
- **White package, colorless clear window**
- **Use as optical indicator**
- **Appropriate for high ambient light because of high operating current (≤ 50 mA DC)**
- **For backlighting, optical coupling into light pipes and lenses**
- **Both chips can be controlled separately**
- **High signal efficiency possible by changing LED color**
- **Can change color from green to yellow and orange to super-red with appropriate controlling**
- **Suitable for all SMT assembly and soldering methods**
- **Available taped on reel (8 mm tape)**
- **Load dump resistant per DIN 40839**

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}) $t \leq 10 \mu s$, $D = 0.005$	.....	1 A
Reverse Voltage (V_R)	.....	5 V
Power Dissipation (P_{TOT})	.....	140 mW
Thermal Resistance, Junction/Air, Mounted on PC Board ⁽¹⁾ , pad size 16 mm ²		
(R_{THJA})	.....	380 K/W
(R_{THJA}) ⁽²⁾	530 K/W

Note:

1. PC board: FR4
2. One system only
3. Both systems on simultaneously
4. The stated maximum ratings refer to one chip.

See graph numbers OHL01698, OHL01660, OHL01626, OHL02152, OHL02254, OHL00240, OHL02104, OHL02105, OHL01696, OHL02154 beginning on page 4-92.

Characteristics $T_A=25^{\circ}\text{C}$, all values typical unless otherwise noted

Parameter	Symbol	Value					Unit	Condition	
		LS	LO	LT	LG	LP			
Peak Wavelength	λ_{PEAK}	635	610	586	565	557	nm	$I_F=10\text{ mA}$	
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	2ϕ	120					Deg		
Forward Voltage	typ.	V_F	2	2.1	2.2	2.6	V	$I_F=10\text{ mA}$	
	max.		3.8			3.2			
Reverse Current	typ.	I_R	0.01					μA	$V_R=5\text{ V}$
	max.		10						
Capacitance	C_0	40	35		80	80	pF	$V_R=0\text{ V}$, $f=1\text{ MHz}$	
Switching Times, I_V	10% to 90%	t_R	350	500	350	500	ns	$I_F=100\text{ mA}$ $I_{\text{off}}=10\text{ }\mu\text{A}$ $R_{\text{th}}=50\text{ }\Omega$	
	90% to 10%	t_F	200	250	200	250			
Part Number	Luminous Intensity ⁽¹⁾ , I_V , mcd	Luminous Flux, Φ_V , mlm	Condition	Part Number	Luminous Intensity ⁽¹⁾ , I_V , mcd	Luminous Flux, Φ_V , mlm	Condition		
LSG T672-MO	30 (≥ 16)	90	$I_F=50\text{ mA}$	LOG T672-MO	50 (≥ 16)	150	$I_F=50\text{ mA}$		
LSP T672-KN	6.3 to 50	—		LOP T672-KN	6.3 to 50	—			
LSP T672-L	10 to 20	45		LOP T672-L	10 to 20	45			
LSP T672-M	16 to 32	75		LOP T672-M	16 to 32	75			
LSP T672-N	25 to 50	100		LOP T672-N	25 to 50	100			
LSP T672-LP	10 to 80	—		LOP T672-LP	10 to 80	—			
*LOY T672-MO	50 (≥ 16)	150		LYP T672-LO	20 (≥ 10)	60			

*Not for new design

Notes

- Luminous Intensity ratio in one packaging unit $I_{\text{VMAX}}/I_{\text{VMIN}} \leq 2.0^{(3)}$
- Luminous Intensity ratio in one LED $I_{\text{VMAX}}/I_{\text{VMIN}} \leq 3.0$ (LOY, LSG, LOG). ≤ 4.0 (LSP, LOP, LYP).
- In MULTILEDs, the brightness of the darker chip in one package determines the brightness group of the LED.

