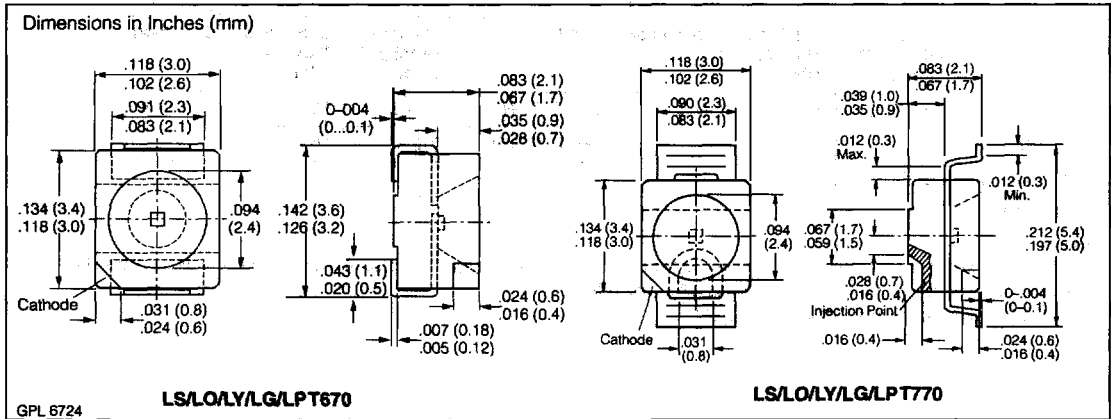


SIEMENS

SUPER-RED LS T670/770
ORANGE LO T670/770
YELLOW LY T670/770
GREEN LG T670/770
PURE GREEN LP T670/770
LxT 670, TOPLED® Lamp
LxT 770, Reverse GullwingTOPLED® Lamp



FEATURES

- P-LCC-2 package
- White package, colorless clear window
- Use as optical indicator
- For backlighting, optical coupling into light pipes and lenses
- Suitable for all SMT assembly and solder methods
- Available taped on reel (8 mm tape)
- Load dump resistant per DIN 40839

Maximum Ratings

Operating/Storage Temperature Range (T_{OR} T_{STG}) -55 to +100°C
 Junction Temperature (T_J) +100°C
 Forward Current (I_F) 30 mA
 Surge Current (I_{FS}) $\leq 10 \mu s$, $D=0.005$ 0.5 A
 Reverse Voltage (V_R) 5 V
 Power Dissipation (P_{TOT}) 100 mW
 Thermal Resistance, Junction/Air,
 Mounted on PC Board⁽¹⁾, pad size 16 mm² (R_{THJA}) 400 K/W

1. PC board G30/FR4

See graph numbers OHL01698, OHL01660, OHL02145,
 OHL02146, OHL01686, OHL01661, OHL02104, OHL02105,
 OHL02106, OHL02150 beginning on page 4-92.

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

Parameter	Symbol	LS	LO	LY	LG	LP	Unit	Condition	
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	V_F	2.0 (≤ 2.6)						V	$I_F=10\text{ mA}$
Reverse Current	I_R	0.01 (≤ 10)						μA	$V_R=5\text{ V}$
Capacitance	C_0	12	8	10	15	15	pF	$V_R=0\text{ V}$ $f=1\text{ MHz}$	
Switching Times, I_V	10%–90%	t_R	300	300	300	450	450	ns	$I_F=100\text{ mA}$ $t_P=10\text{ }\mu\text{s}$ $R_L=50\text{ }\Omega$
	90%–10%	t_F	150	150	150	200	200		
Part Number	Luminous Intensity*, I_V	Luminous Flux, Φ_V	Condition	Part Number	Luminous Intensity*, I_V	Luminous Flux, Φ_V	Condition		
LS T670-HK	2.5 to 12.5	—	$I_F=10\text{ mA}$	LY T670-L	10 to 20	18	$I_F=10\text{ mA}$		
LST670-J	4 to 8	18		LYT670-JM	4 to 32	—			
LS T670-K	6.3 to 12.5	30		LGT670-HK	2.5 to 12.5	—			
LS T670-L	10 to 20	45		LG T670-J	4 to 8	18			
LST670-JM	4 to 32	—		LGT670-K	6.3 to 12.5	30			
LOT670-HK	2.5 to 12.5	—		LGT670-L	10 to 20	45			
LOT670-J	4 to 8	8		LG T670-JM	4 to 32	—			
LO T670-K	6.3 to 12.5	12		LPT670-FJ	1 to 2	—			
LOT670-L	10 to 20	18		LPT670-G	1.6 to 3.2	8			
LO T670-JM	4 to 32	—		LPT670-H	2.5 to 5	12			
LY T670-HK	2.5 to 12.5	—		LPT670-J	4 to 8	18			
LY T670-J	4 to 8	18		LPT670-GK	1.6 to 12.5	—			
LY T670-K	6.3 to 12.5	30							
LS T770-HK	2.5 to 12.5	—		$I_F=10\text{ mA}$	LY T770-L	10 to 20		18	$I_F=10\text{ mA}$
LST770-J	4 to 8	18	LYT770-JM		4 to 32	—			
LST770-K	6.3 to 12.5	30	LGT770-HL		2.5 to 12.5	—			
LS T770-L	10 to 20	45	LG T770-J		4 to 8	18			
LST770-JM	4 to 32	—	LG T770-K		6.3 to 12.5	30			
LOT770-HK	2.5 to 12.5	—	LG T770-L		10 to 20	45			
LOT770-J	4 to 8	8	LG T770-JM		4 to 32	—			
LO T770-K	6.3 to 12.5	30	LPT770-FJ		1 to 2	—			
LOT770-L	10 to 20	45	LPT770-G		1.6 to 3.2	8			
LOT770-JM	4 to 32	—	LPT770-H		2.5 to 5	12			
LY T6770-HK	2.5 to 12.5	—	LPT770-J		4 to 8	18			
LY T770-J	4 to 8	8	LPT770-GK		1.6 to 12.5	—			
LY T770-K	10 to 20	12							

*Luminous intensity ratio in one packaging unit $I_{V\text{MAX}}/I_{V\text{MIN}}\geq 2.0$