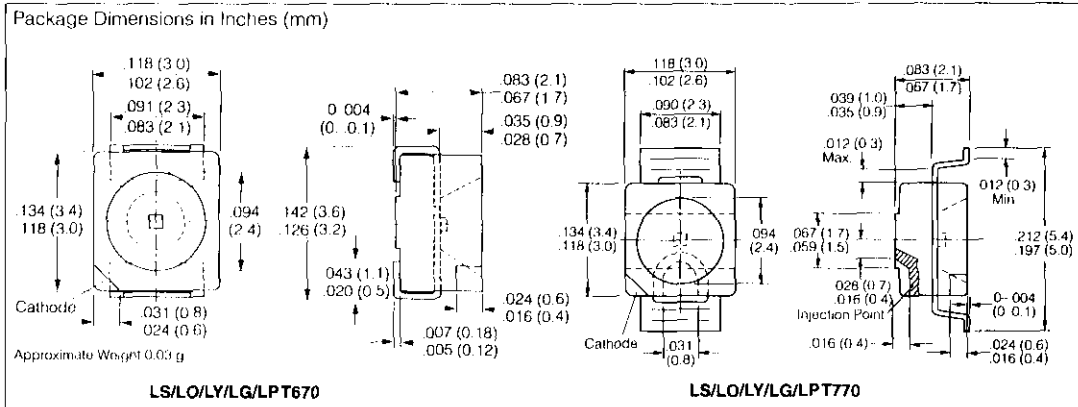


SUPER-RED LST670/770
ORANGE LOT670/770
YELLOW LYT670/770
GREEN LGT670/770
PURE GREEN LPT670/770
SMT-TOP-LED®



FEATURES

- LX T770: Reverse Gullwing TOP-LED
- P-LCC-2 Package
- White Package
- Optical Indicator
- Ideal for Backlighting, Optical Coupling Into Light Pipes and Lenses
- Colorless Clear Window
- Suitable for all SMT Solder Processes
- Available on Tape and Reel
- Load Dump Resistant acc. to DIN 40839

Maximum Ratings

Operating Temperature Range (T_{OP})	-55 to +100°C
Storage Temperature Range (T_{STG})	-55 to +150°C
Junction Temperature (T_J)	+100°C
Forward Current (I_F)	30 mA
Surge Current (I_{FS}) $t \leq 10 \mu s$, $D=0.005$	0.5 A
Reverse Voltage (V_R)	5 V
Power Dissipation (P_{TOT}) $T_A \leq 25^\circ C$	100 mW
Thermal Resistance, Junction Air, Mounted on PC Board ⁽¹⁾ (pad size 16 mm ²)	
(R_{THJA})	400 K/W
Junction Solderpoint (R_{THJS})	300 K/W

Note: PC board G30/FR4

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

Characteristics ($T_A=25^\circ\text{C}$) All values typical unless otherwise noted

Parameter	Symbol	Values					Unit	
		Super-red	Orange	yellow	Green	Pure Green		
Peak Wavelength ($I_F=10\text{ mA}$)	λ_{PFAK}	635	610	586	565	557	nm	
Dominant Wavelength ($I_F=10\text{ mA}$)	λ_{DOM}	628	605	590	570	560	nm	
Spectral Bandwidth (50% I_{RELMAX}) ($I_F=10\text{ mA}$)	$\Delta\lambda$	45	40	45	25	22	nm	
Viewing Angle, 50%, I_V	2ϕ	120					Deg	
Forward Voltage ($I_F=10\text{ mA}$)	Typ. V_F	2.0					V	
	Max	2.6						
Reverse Current ($V_R=5\text{ V}$)	Typ. I_R	0.01					μA	
	Max	10						
Capacitance ($V_R=0\text{ V}$, $f=1\text{ MHz}$)	C_0	12	8	10	15	15	pF	
Switching times ($I_F=100\text{ mA}$) ($t_p=10\text{ }\mu\text{s}$, $R_L=50\text{ }\Omega$)	I_V , 10%-90%	t_R	300	300	300	450	450	ns
	I_V , 90%-10%	t_F	150	150	150	200	200	
Luminous Intensity Ratio in One Packaging Unit $I_{V\text{MAX}}/I_{V\text{MIN}}\geq 2.0$								
Type	Light Emitting Color	Luminous Intensity $I_F=10\text{ mA}$, I_V (mcd)						
		Min.	Max.					
LS, LO, LGT670/T770-HK LS, LO, LGT670/T770-J LS, LO, LGT670/T770-K LS, LO, LGT670/T770-JL	Super-red, Orange, Green	2.5	12.5					
		4	8					
		6.3	12.5					
		4	20					
		2.5	12.5					
LYT670/T770-HK LYT670/T770-H LYT670/T770-J LYT670/T770-JL	Yellow	2.5	12.5					
		2.5	5					
		4	8					
		4	20					
LPT670/T770-FJ LPT670/T770-G LPT670/T770-H LPT670/T770-GK	Pure Green	1	8					
		1.6	3.2					
		2.5	5					
		1.6	12.5					