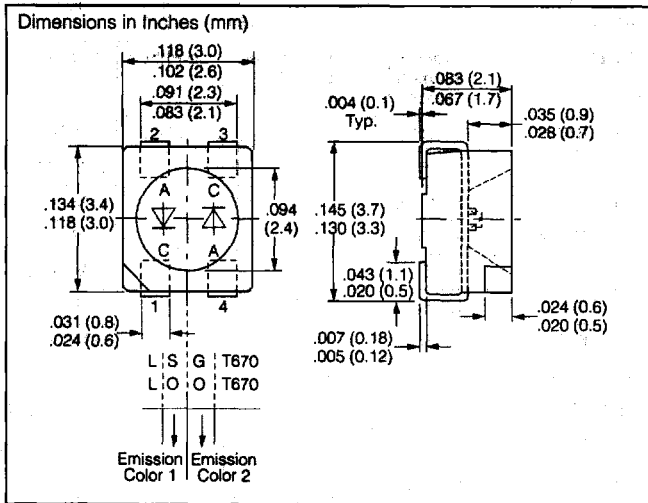
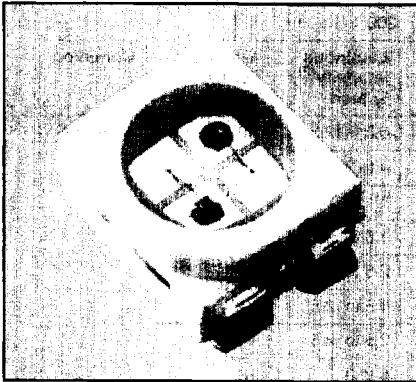


SIEMENS

SUPER-RED/GREEN LSG T670
SUPER-RED/PURE GREEN LSP T670
SUPER-RED/YELLOW LSY T670
ORANGE/PURE GREEN LOP T670
ORANGE/GREEN LOG T670
Multi TOPLED® Lamp



FEATURES

- TOPLED: surface mount LED lamp
- P-LCC-4 package
- White package, colorless clear window
- Optical indicator
- Ideal for backlighting, optical coupling into light pipes and lenses
- Both chips can be controlled separately
- High signal efficiency possible by changing LED color
- Suitable for all SMT assembly and solder processes
- Available taped on reel (8 mm tape)
- Load dump resistant acc. to DIN 40839

See graph numbers OHL01698, OHL01660, OHL02145, OHL02146, OHL01686, OHL00241, OHL02104, OHL02105, OHL02106, OHL02150 beginning on page 4-92

Maximum Ratings

Operating/Storage Temperature Range (T_{OP} T_{STG})	.....	-55 to +100°C
Junction Temperature (T_J)	.....	+100°C
Forward Current (I_F)	.....	30 mA
Surge Current (I_{FM}) $t \leq 10 \mu s$, $D=0.005$	.....	0.5 A
Reverse Voltage (V_R)	.....	5 V
Power Dissipation (P_{TOT})	.....	100 mW
Thermal Resistance, Junction/Air, Mounted on PC Board, pad size ⁽¹⁾ 16 mm ²		
(R_{THJA}) ⁽²⁾	480 K/W
(R_{THJA}) ⁽³⁾	650 K/W

Notes

1. PC board G30/FR4
2. One system only.
3. Both systems on simultaneously.
4. The stated maximum ratings refer to one chip.

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

Parameter	Symbol	LR	LS	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% Φ_V	$\Delta\lambda$	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		pF	$V_R=0\text{ V}$, $f=1\text{ MHz}$
Switching Time, I_V 10% to 90% 90% to 10%	t_R t_F	300 150	450 200	300 150	450 200		ns	$I_F=100\text{ mA}$, $t_p=10\text{ }\mu\text{s}$, $R_L=50\text{ }\Omega$

Part No.	Luminous Intensity ⁽²⁾ , I_V , mcd	Luminous Flux, Φ_V , mlm	Condition	Part No.	Luminous Intensity ⁽²⁾ , I_V , mcd	Luminous Flux, Φ_V , mlm	Condition
LSGT670-HK	2.5 to 12.5	—	$I_F=10\text{ mA}$	LSY T670-K	6.3 to 12.5	30	$I_F=10\text{ mA}$
LSGT670-J	4 to 8	18		LSY T670-JL	4 to 20	—	
LSGT670-K	6.3 to 12.5	30		LOP T670-FJ	1 to 8	—	
LSGT670-JL	4 to 20	—		LOP T670-G	1.6 to 3.2	8	
LSP T670-FJ	1 to 8	—		LOP T670-H	2.5 to 5	12	
LSP T670-G	1.6 to 3.2	8		LOP T670-GK	1.6 to 12.5	—	
LSP T670-H	2.5 to 5	12		LOG T670-HK	2.5 to 12.5	—	
LSP T670-GK	1.6 to 12.5	—		LOG T670-J	4 to 8	18	
LSP T670-J	4 to 8	18		LOG T670-K	6.3 to 12.5	30	
LSY T670-HK	2.5 to 12.5	—		LOG T670-JL	4 to 20	—	
LSY T670-J	4 to 8	18					

Notes

- In MULTILEDs, the brightness of the darker chip in one package determines the brightness group of the LED.
- Luminous intensity ratio in one packaging unit $I_{V\text{MAX}}/I_{V\text{MIN}} \leq 2.0$ ⁽¹⁾.
- Luminous intensity ratio in one LE $I_{V\text{MAX}}/I_{V\text{MIN}} \leq 3.0$ (LSG/LOG/LSY T670), ≤ 4.0 (LSP/LOP/LYP T670).