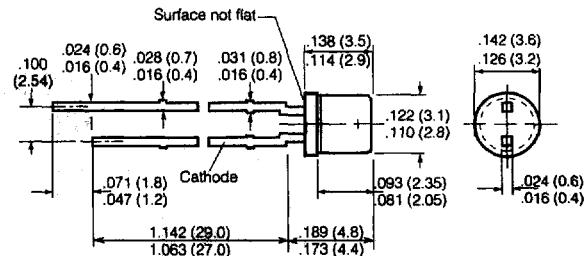


SIEMENS

**SUPER-RED/PURE GREEN LSP P370
ORANGE/PURE GREEN LOP P370
3 mm (T1) Plane MULTILED® Lamp**



Dimensions in inches (mm)



GEX 6816

LED Lamps

FEATURES

- Colorless, clear package
- For optical coupling into light pipes
- Use as optical indicator
- Antiparallel chips
- High signal efficiency possible by changing LED color
- Can change color from green to yellow and orange (resp. to super-red) with appropriate controlling by IC such as SDA 2231
- Solder leads with stand-off
- Available taped on reel
- Load dump resistant per DIN 40839

Maximum Ratings The stated maximum ratings refer to the specified chip, regardless of the other one's operating status.

Operating/Storage Temperature

Range (T_{OA} T_{STG}) -55°C to +100°C
Junction Temperature (T_J) 100°C

Forward Current (I_F)
LS, LO 40 mA
LP 30 mA

Surge Current (I_{FM}) $t < 10 \mu s$, $D=0.005$ 0.5 A
Power Dissipation (P_{TOT}) $T_A \leq 25^\circ C$

LS, LO 140 mW
LP 100 mW

Thermal Resistance,
Junction/Air (R_{THJA}) 400 K/W

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

Parameter	Sym.	LS	LO	LY	Unit	Condition
Peak Wavelength	λ_{PEAK}	635	610	557	nm	$I_F=20$ mA
Dominant Wavelength	λ_{DOM}	628	605	560		
Spectral Bandwidth, 50% Φ_V	$\Delta\lambda$	45	40	22		
Forward Voltage	V_F	2.1 (± 2.6)			V	
Capacitance ⁽⁴⁾	C_O	12	8	15	pF	$I_F=20$ mA
Switching Times, I_V	10% to 90%	T_R	300		450	ns
	90% to 10%	T_F	150		200	$I_F=100$ mA $t_p=10 \mu s$ $R_L=50 \Omega$
Part Number	Luminous Flux, Φ_V mIm	Part Number	Luminous Flux, Φ_V mIm	Condition		
LSP P370-KN	6.3 to 50	LOP P370-KN	6.3 to 50			$I_F = 15$ mA
LSP P370-M	16 to 32	LOP P370-M	16 to 32			
LSP P370-N	25 to 50	LOP P370-N	25 to 50			
LSP P370-P	40 to 80	LOP P370-MQ	16 to 125			
LSP P370-MQ	16 to 125					

Notes

1. Luminous flux ratio of one packaging unit $\Phi_{VMAX} / \Phi_{VMIN} \leq 2^{(3)}$.
2. Luminous flux ratio of one LED $\Phi_{VMAX} / \Phi_{VMIN} \leq 4$.
3. In MULTILEDs, the brightness of the darker chip in one packaging unit determines the brightness group of the LED.
4. The total capacitance results from the sum of the single capacitances.

See graph numbers OHL01698, OHL02066, OHL02145, OHL02253, OHL01162, OHL01686, OHL02252, OHL01661, OHL02104, OHL02149, OHL02107 beginning on page 4-92.