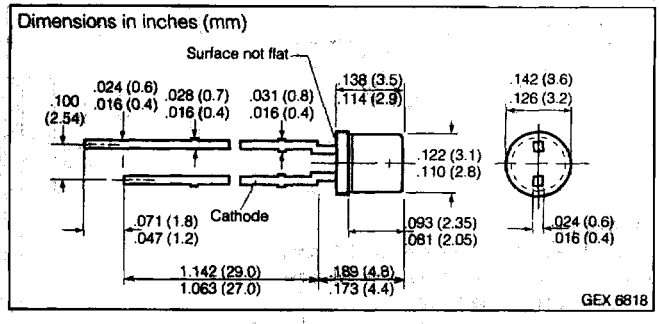
SIEMENS

SUPER-RED LS P380
ORANGE LO P380
YELLOW LY P380
GREEN LG P380
PURE GREEN LP P380

Plane Flat Top T1 (3 mm) LED Lamp



FEATURES

- **Colorless clear lens**
- **For optical coupling into light pipes**
- **Use as optical indicator**
- **Solder leads with stand-off**
- **Available taped on reel**
- **Load dump resistant per DIN 40839**

Note:

If the diffuser screen is tinted, the spectral transmission must be adjusted to the wavelength emitted by the LED.

Maximum Ratings

Operating/Storage Temperature Range (T_A, T_{STG}) ..... –55°C to +100°C
Junction Temperature (T_J) ..... 100°C
Forward Current (I_F)
LS, LO, LY, LG ..... 40 mA
LP ..... 30 mA
Surge Current (I_{FM}) t <10 µs, D = 0.005 ..... 0.5 A
Reverse Voltage (V_R) ..... 5 V
Power Dissipation (P_{TOT}) $T_A \leq 25°C$
LS, LO, LLY, LG ..... 140 mW
LP ..... 100 mW
Thermal Resistance, Junction/Air (R_{THJA}) ..... 400 K/W

Characteristics T_A=25°C, all values typical unless otherwise noted

Parameter		Sym.	LS	LO	LY	LG	LP	Unit	Condition
Peak Wavelength		λ_{PEAK}	635	610	586	565	557	nm	I_F=20 mA
Dominant Wavelength		λ_{DOM}	628	605	590	570	560		
Spectral Bandwidth 50% Φ_V, I_{RELMAX}		$\Delta\lambda$	45	40	45	25	22		
Forward Voltage		V_F	2.1 (≤2.6)					V	I_F=15 mA
Reverse Current		I_R	0.01 (≤10)					µA	V_R=5 V
Capacitance		C_O	12	8	10	15	32		V_R=0 V f=1 MHz
Switching Time, I_V	10% to 90%	t_R	300			450		ns	I_F=100 mA t_P=10 µs R_L=50 Ω
	90% to 10%	t_F	150			200			

Part Number	Luminous Flux, Φ_V, mlm	Condition
LS/LO/LY/LG/LP P380-MP	16 to 80	I_F = 15 mA
LS/LO/LY/LG/LP P380-N	25 to 50	
LS/LO/LY/LG P380-P	40 to 80	
LS/LO/LY/LG P380-NQ	25 to 125	
LP P380-LN	10 to 50	
LP P380-M	16 to 32	

Luminous flux ratio of one packaging unit $\Phi_{VMAX} / \Phi_{VMIN} \leq 2$

See graph numbers OHL01697, OHL02080, OHL01625, OHL02103, OHL01162, OHL01686, OHL02252, OHL01661, OHL02104, OHL02105, OHL02149, OHL02107 beginning on page 4–92.