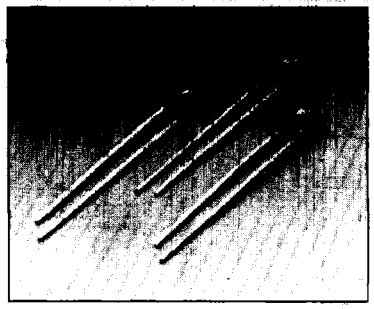
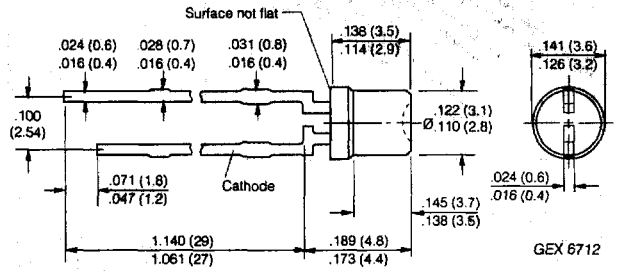
SIEMENS

SUPER-RED LS K382
YELLOW LY K382
GREEN LG K382
ORANGE LO K382
PURE GREEN LP K382

Flat Top T1 (3 mm) Super ARGUS LED Lamp



Dimensions in inches (mm)



FEATURES

- **Colored, clear lens**
  - **LS: red**
  - **LO: orange**
  - **LY: yellow**
  - **LG: green**
  - **LP: colorless**
- **Appropriate for high ambient light because of high operating current (typ. 50 mA)**
- **Suitable for backlighting display panels with additional, custom built reflector**
- **Uniform illumination of a diffuser screen in front of a custom built reflector**
- **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 wavelengh* emitted by the LED

Maximum Ratings

Operating/Storage Temperature Range (T_{OP}, T_{STG}) . . . –55°C to +100°C
Junction Temperature (T_J) . . . . . 100°C
Reverse Voltage (V_R) . . . . . 5 V
Forward Current (I_f) . . . . . 75 mA
Surge Current (I_{FM})
t≤10 µs, D=0.005 . . . . . 1 A
Total Power Dissipation
(P_{TOT}) T_A≤25°C . . . . . 300 mW
Thermal Resistance, Junction/Air (1)
(R_{THJA}) . . . . . 250 K/W

1. Mounted on PC board with minimum lead length (up to stand-off, pad size ≥16 mm²).

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

Parameter	Sym.	LS	LY	LG	LO	LP	Unit	Condition
Peak Wavelength	λ_{PEAK}	635	586	565	610	557	nm	I_F=20 mA
Dominant Wavelength	λ_{DOM}	628	590	570	605	560		
Spectral Bandwidth, 50% Φ_V	$\Delta\lambda$	45	45	25	40	22		
Forward Voltage	V_F	2.0 (≤3.8)	2.4 (≤3.8)	2.6 (≤3.8)	2.4 (≤3.8)	2.6 (≤3.2)	V	I_F=50 mA
Reverse Current	I_R	0.01 (≤10)					µA	V_R=5 V
Capacitance	C_0	55	30	55	40	80	pF	V_R=0 V f=1 MHz
Switching Times I_V, 10% to 90% I_V, 90% to 10%		—					ns	I_F=100 mA tp=10 µs R_L=50 Ω

Part No.	Luminous Flux, Φ_V min, I_F=50 mA	Part No.	Luminous Flux, Φ_V min, I_F=50 mA
*LS, *LO, *LY, LG K382-QT	63 to 500	LP K382-NR	25 to 200
*LS, *LO, *LY, LG, LP K382-R	100 to 200	LP K382-P	40 to 80
*LS, *LO, *LY, LG K382-S	160 to 320	LP K382-Q	63 to 125
*LS, *LO, *LY, LG K382-RU	100 to 800	LP K382-PS	40 to 320
LG K382-T	250 to 500		

* Not for new design

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

See graph numbers OHL01697, OHL01124, OHL01126, OHL01128, OHL01710, OHL02068, OHL02104, OHL02105, OHL01696, OHL01700 beginning on page 4–92.