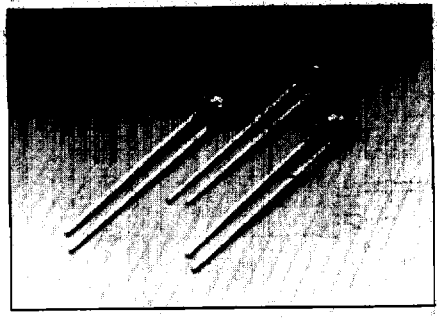
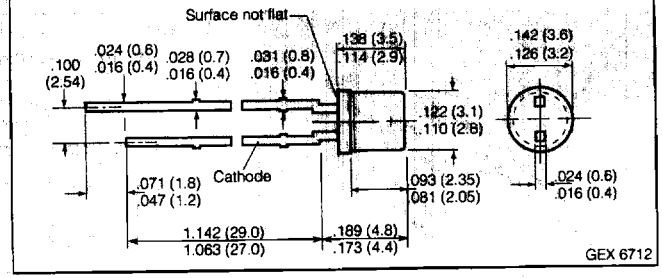
SIEMENS

SUPER-RED LS K376
AMBER LA K376
ORANGE LO K376
YELLOW LY K376

Flat Top T1 (3 mm) Hyper-Bright ARGUS® LED Lamp



Dimensions in inches (mm)



FEATURES

- **Colored, clear lens**
- **Plastic package with a special design**
- **With an additional, custom built reflector suitable for backlighting display panels**
- **For optical coupling into light pipes**
- **Uniform illumination of a diffuser screen in front of the 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 wavelength emitted by the LED.

Maximum Ratings

Operating/StorageTemperature Range (T_{OP}, T_{STG}) ..... −55°C to +100°C
Junction Temperature (T_J) ..... 100°C
Reverse Voltage (V_R) ..... 3 V
Forward Current (I_F)
LS, LO, LA ..... 30 mA
LY ..... 20 mA
Surge Current (I_{FM}) t <10 µs,
D = 0.005 ..... to be defined
Power Dissipation (P_{TOT}) $T_A \leq 25°C$
LS, LO, LA ..... 80 mW
LY ..... 55 mW
Thermal Resistance,
Junction/Air (R_{THJA}) ..... 500 K/W

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

Parameter		Sym.	LS	LA	LO	LY	Unit	Condition
Peak Wavelength		λ_{PEAK}	645	622	610	591	nm	I_F=20 mA
Dominant Wavelength		λ_{DOM}	632	615	605	587		
Spectral Bandwidth, 50% Φ_V		$\Delta\lambda$	16			15		
Forward Voltage		V_F	2.0 (≤2.6)				V	
Reverse Current		I_R	0.01 (≤10)				µA	V_R=3 V
Temperature Coefficient	λ_{DOM}	TC_λ	0.014	0.062	0.067	0.096	nm/K	I_F=20 mA
	λ_{PEAK}		0.14	0.13				
	V_F	TC_V	−1.95	−1.78	−1.67	−2.51	mV/K	

Part Number	Luminous Flux, Φ_V, mlm	Part Number	Luminous Flux, Φ_V, mlm	Condition
LS K376-QT	63 to 500	LO K376-RU	10 to 800	I_F = 20 mA
LS K376-R	100 to 200	LO K376-S	160 to 320	
LS K376-S	160 to 320	LO K376-T	250 to 500	
LS K376-T	250 to 500	LO K376-U	400 to 800	
LS K376-RU	100 to 800	LO K376-SV	160 to 1250	
LA K376-RU	10 to 800	LY K376-RU	10 to 800	
LA K376-S	160 to 320	LY K376-S	160 to 320	
LA K376-T	250 to 500	LY K376-T	250 to 500	
LA K376-U	400 to 800	LY K376-U	400 to 800	
LA K376-SV	160 to 1250	LY K376-SV	160 to 1250	

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

See graph numbers OHL00235, OHL01277, OHL00232, OHL00248, OHL00233, OHL00238, OHL00322, OHL00316 beginning on page 4–92.