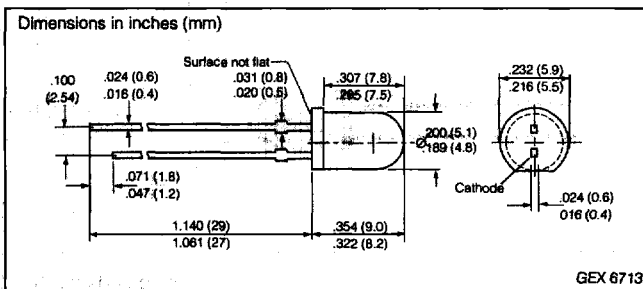
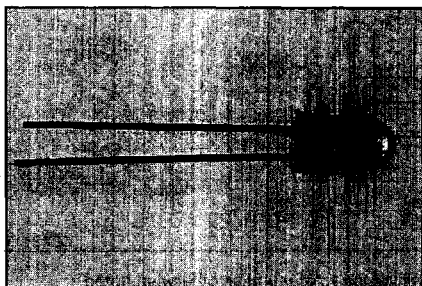


# SIEMENS

## SUPER-RED LS 5436 AMBER LA 5436 ORANGE LO 5436 YELLOW LY 5436 Hyper-Bright T1<sup>3</sup>/<sub>4</sub> (5 mm) LED Lamp



### FEATURES

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

### Maximum Ratings

Operating/Storage Temperature	
Range (T <sub>OP</sub> , T <sub>STG</sub> )	-55°C to +100°C
Junction Temperature (T <sub>J</sub> )	100°C
Reverse Voltage (V <sub>R</sub> ) <sup>(1)</sup>	3 V
Forward Current (I <sub>F</sub> )	
LS, LO, LA	30 mA
LY	20 mA
Surge Current (I <sub>FS</sub> ) t ≤ 10 μs, D=0.005	TBD
Power Dissipation (P <sub>TOT</sub> ) T <sub>A</sub> ≤ 25°C	
LS, LO, LA	80 mW
LY	55 mW
Thermal Resistance,	
Junction/Air (R <sub>THJA</sub> )	500 K/W

1. Reverse biasing should be avoided.

### Characteristics T<sub>A</sub> = 25°C, all values typical unless otherwise noted

Parameter	Sym.	LS	LA	LO	LY	Unit	Condition	
Peak Wavelength	λ <sub>PEAK</sub>	645	622	610	591	nm	I <sub>F</sub> = 20 mA	
Dominant Wavelength	λ <sub>DOM</sub>	632	615	605	587			
Spectral Bandwidth 50% I <sub>RELMAX</sub>	Δλ	16			15			
Viewing Angle 50%, I <sub>V</sub>	2φ	30				Deg.		
Forward Voltage	V <sub>F</sub>	2 (≤ 2.6)				V	I <sub>F</sub> = 20 mA	
Reverse Current	I <sub>R</sub>	0.01 (≤ 10)				μA	V <sub>R</sub> = 3 V	
Temperature Coefficient	λ <sub>DOM</sub>	TC <sub>λ</sub>	0.014	0.062	0.067	0.096	nm/K	I <sub>F</sub> = 20 mA
	λ <sub>PEAK</sub>		0.14	0.13				
	V <sub>F</sub>	TC <sub>V</sub>	-1.95	-1.78	-1.67	-2.51	mV/K	
Part Number	Luminous Intensity*, I <sub>v</sub> mod min. (typ.)	Condition	Part Number	Luminous Intensity*, I <sub>v</sub> mod min. (typ.)	Condition			
LS 5436-SO	160 (350)	I <sub>F</sub> = 20 mA	LO 5436-TO	160 (350)	I <sub>F</sub> = 20 mA			
LA 5436-TO	250 (500)		LY 5436-TO	250 (500)				

\* Luminous intensity ratio of one packaging unit I<sub>vMAX</sub>/I<sub>vMIN</sub> ≤ 2.

See graph numbers OHL00235, OHL00314, OHL00232, OHL00248, OHL00233, OHL00238, OHL00322, OHL00316 beginning on page 4-92.