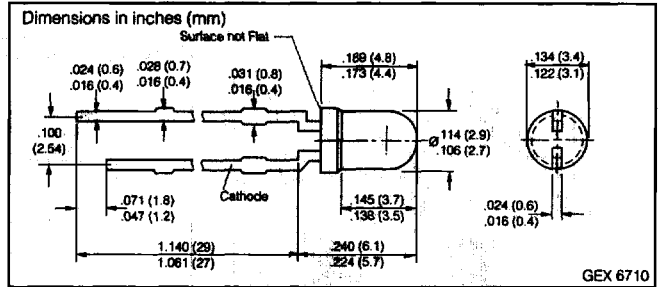


SIEMENS

SUPER-RED LS 3366 AMBER LA 3366 ORANGE LO 3366 YELLOW LY 3366 Hyper-Bright T1 (3 mm) LED Lamp



FEATURES

- Colored, diffused lens
 - LS: red
 - LA/LO: orange
 - LY: yellow
- 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 and Storage Temperature	Range (T_{OP} , T_{STG})	-55°C to +100°C
Junction Temperature (T_J)		100°C
Reverse Voltage (V_R) ⁽¹⁾		3 V
Forward Current (I_F), LY		20 mA
LS, LO, LA		30 mA
Surge Current (I_{FS}) $t \leq 10 \mu s$		to be defined
Power Dissipation (P_{TOT}) $T_A = 25^\circ C$, LY		55 mW
LS, LO, LA		80 mW
Thermal Resistance,		
Junction to Air (R_{THJA})		500 K/W

Note:

1. Reverse biasing should be avoided.

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

Parameter	Sym.	LS	LA	LO	LY	Unit	Condition	
Peak Wavelength	λ_{PEAK}	645	622	610	591	nm	$I_F = 20 \text{ mA}$	
Dominant Wavelength	λ_{DOM}	632	615	605	587			
Spectral Bandwidth	$\Delta\lambda$	16			15			
50% I_{RELMAX}								
Viewing Angle 50%, I_V	2ϕ	70				Deg.		
Forward Voltage	typ.	V_F			2	V	$I_F = 20 \text{ mA}$	
	max.				2.6			
Reverse Current	typ.	I_R			0.01	μA	$V_R = 3 \text{ V}$	
	max.				10			
Temperature Coefficient	λ_{DOM}	TC_λ	0.014	0.062	0.067	0.096	nm/K	$I_F = 20 \text{ mA}$
	λ_{PEAK}		0.14	0.13				
	V_F	TC_{V_F}	-1.95	-1.78	-1.67	-2.51	mV/K	
Part Number	Luminous Intensity, I_A mcd	Part Number		Luminous Intensity, I_A mcd	Condition			
LS 3366-NR	25 to 200	LO 3366-PS		40 to 320	$I_F = 20 \text{ mA}$			
LS 3366-P	40 to 80	LO 3366-Q		63 to 125				
LS 3366-Q	63 to 125	LO 3366-R		100 tp 200				
LS 3366-R	100 to 200	LO 3366-S		160 to 320				
LS 3366-PS	40 to 320	LO 3366-QT		63 to 500				
LA 3366-PS	40 to 320	LY 3366-PS		40 to 320				
LA 3366-Q	63 to 125	LY 3366-Q		63 to 125				
LA 3366-R	100 tp 200	LY 3366-R		100 tp 200				
LA 3366-S	160 to 320	LY 3366-S		160 to 320				
LA 3366-QT	63 to 500	LY 3366-QT		63 to 500				

* Luminous intensity ratio of one packaging unit $I_{VMAX}/I_{VMIN} \leq 2$.

See graph numbers OHL00235, OHL01165, OHL00232, OHL00248, OHL00233, OHL00238, OHL00322, OHL00316 beginning on page 4-92.