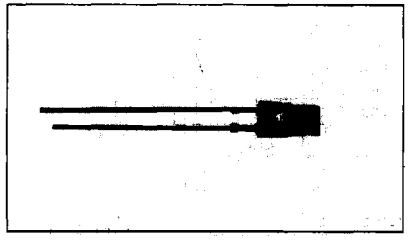
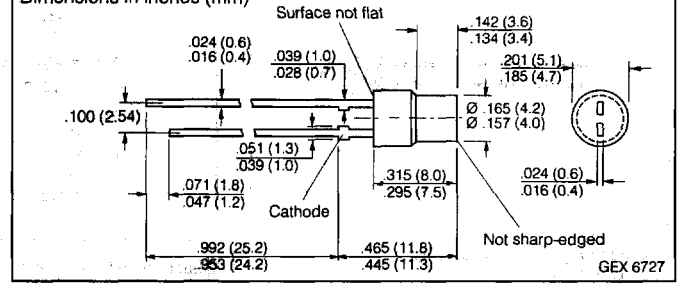
SIEMENS

GaAsP RED LR H380
TSN SUPER-RED LS H380
TSN YELLOW LY H380
GaP GREEN LG H380
ORANGE LO H380
Cylindrical LED Lamp



Dimensions in inches (mm)



FEATURES

- **Colored, partly diffused lens**
  - **LR, LS: red**
  - **LO: orange**
  - **LY: yellow**
  - **LG: green**
- **Use as optical indicator in front panels**
- **Solder leads without stand-off**
- **Available taped on reel**
- **Load dump resistance per DIN 40839**

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) ..... 40 mA
Surge Current (I_{FS}) t ≤10 µs ..... 0.5 A
Power Dissipation (P_{TOT}) T_A=25°C..... 140 mW
Thermal Resistance, Junction/Air (R_{THJA}) ..... 400 K/W

See graph numbers OHL01164, OHL01681, OHL01676, OHL01011, OHL01162, OHL02142, OHL02143, OHL01677, OHL01678, OHL01679, OHL01680 beginning on page 4–92.

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

Parameter	Sym.	LR	LS	LY	LG	Unit	Condition
Peak Wavelength	λ_{PEAK}	660	635	586	565	nm	
Dominant Wavelength	λ_{DOM}	645	628	590	570		
Spectral Bandwidth 50% I_{RELMAX}	$\Delta\lambda$	35	45		25		I_F=20 mA
Viewing Angle, 50% I_V	2φ	100				Deg.	
Forward Voltage	V_F	1.6 (≤2.0)	2.0 (≤2.6)			V	I_F=10 mA
Reverse Current	I_R	0.01 (≤10)				µA	V_R=5 V
Capacitance	C_0	25	12	10	15	pF	V_R=0 V
Rise Time	t_R	120	300		450	ns	
Fall Time	t_F	50	150		200		

Luminous Intensity*, I_V, mcd

Part Number	Min.	Max.	Part Number	Min.	Max.	Condition
LR H380-BD	0.16	0.8	LY H380-EH	0.63	5	I_F=10 mA
LR H380-C	0.25	0.5	LY H380-G	1.6	3.2	
LR H380-D	0.4	0.8	LY H380-H	2.5	5	
LR H380-CE	0.25	1.25	LY H380-J	4	8	
LS H380-EH	0.63	5	LY H380-GK	1.6	12.5	
LS H380-G	1.6	3.2	LG H380-EH	0.63	5	
LS H380-H	2.5	5	LG H380-G	1.6	3.2	
LS H380-J	4	8	LG H380-GK		12.5	
LS H380-GK	1.6	12.5	LG H380-J	4	8	
LO H380-GJ	≥1.6	4 typ.	LG H380-H	2.5	5	

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