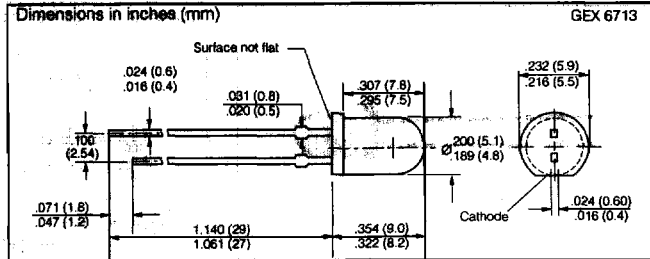
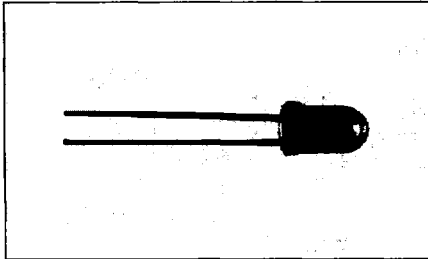


SIEMENS

RED LR 5460
SUPER-RED LS 5460
YELLOW LY 5460
GREEN LG 5460
T1³/₄ (5 mm) LED Lamp



FEATURES

- Colored, diffused lens
LR, LS: red
LY: yellow
LG: green
- Use as optical indicator
- Solder leads without stand-off
- Available taped on reel
- Load dump resistance per DIN 40838

DESCRIPTION

The LR 5460 series is a standard red gallium arsenide phosphide (GaAsP) LED lamp. The LS 5460 super-red and LY 5460 yellow are premium high efficiency light emitting diode lamps fabricated with TSN (transparent substrate nitrogen) technology. The LG 5460 green is a gallium phosphide (GaP) lamp. All have a diffused plastic lens which emits a full flooded intense light.

Maximum Ratings

Operating/Storage Temperature	
Range (T _{OP} , T _{STG})	-55°C to +100°C
Junction Temperature (T _J)	100°C
Forward Current (I _F)	
LR	45 mA
LS, LY, LG	40 mA
Surge Current (I _{FS}) t ≤ 10 μs	0.5 A
Reverse Voltage (V _R)	5 V
Power Dissipation (P _{TOT}) T _A ≤ 25°C	
LR	100 mW
LS, LY, LG	140 mW
Thermal Resistance,	
Junction/Air (R _{THJA})	400 K/W

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}	Δλ	35	45	25			I _F = 20 mA
Viewing Angle 50% I _V	2φ	50				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, f = 1 MHz
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 5460-DG	0.4	3.2	LY 5460-HL	2.5	20	I _F = 10 mA
LR 5460-F	1	2	LY 5460-J	4	8	
LR 5460-G	1.6	3.2	LY 5460-K	6.3	12.5	
LR 5460-FJ	1	8	LY 5460-L	10	20	
LS 5460-HL	2.5	20	LY 5460-JM	4		
LS 5460-J	4	8	LG 5460-GK	1.6	12.5	
LS 5460-K	6.3	12.5	LG 5460-H	2.5	5	
LS 5460-L	10	20	LG 5460-J	4	8	
LS 5460-JM	4	32	LG 5460-K	6.3	12.5	
			LG 5460-HL	2.5	20	

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

See graph numbers OHL01164, OHL01191, OHL01676, OHL01011, OHL01162, OHL02142, OHL02143, OHL01677, OHL01677, OHL01678, OHL01679, OHL01680 beginning on page 4-92.

