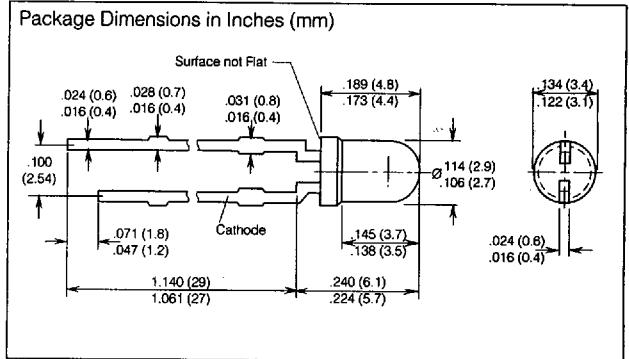
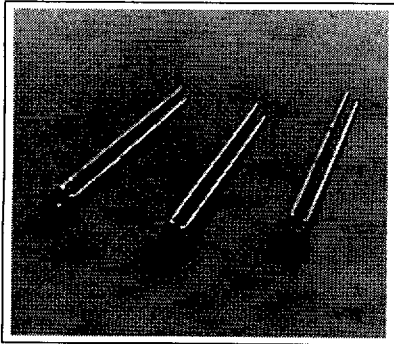


SIEMENS

SUPER-RED LS 3369 YELLOW LY 3369 GREEN LG 3369

Low Current T1 (3 mm) LED Lamp



FEATURES

- Low Power Requirement
- 60° Viewing Angle
- Diffused Lens
- 1" Lead Length
- IC Compatible

DESCRIPTION

The 3369 series are low current LED lamps that have been designed to optimize light output at very low currents. These parts are ideally suited for applications where power is at a premium, such as portable equipment.

Maximum Ratings

Operating Temperature Range (T_{OP})	.....	-55°C to +100°C
Storage Temperature Range (T_{STG})	.....	-55°C to +100°C
Junction Temperature (T_J)	.....	100°C
Reverse Voltage (V_R)	.....	5 V
Forward Current (I_F)	.....	7.5 mA
Surge Current (I_{FS}) $t=10 \mu s/D \leq 0.005$	.....	150 mA
Total Power Dissipation (P_{TOT}) $T_A=25^\circ C$	.....	20 mW
Thermal Resistance Junction to Air (R_{THJA})	.....	750 K/W

Note:

Soldered on PC board: pad size $\geq 16 \text{ mm}^2$.

Characteristics ($T_A=25^\circ C$) All values typical unless otherwise noted

Parameter	Sym	LS 3369	LY 3369	LG 3369	Unit
		Super-Red	Yellow	Green	
Peak Wavelength ($I_F=7.5 \text{ mA}$)	λ_{PEAK}	635	586	565	nm
Dominant Wavelength ($I_F=7.5 \text{ mA}$)	λ_{DOM}	628	590	570	nm
Spectral Bandwidth (50% $_{RELMAX}$, $I_F=7.5 \text{ mA}$)	$\Delta\lambda$	45	45	25	nm
Viewing Angle	2ϕ	60	60	60	Deg.
Forward Voltage ($I_F=2 \text{ mA}$)	V_F	1.8(≤ 2.6)	2.0(≤ 2.7)	1.9(≤ 2.6)	V
Reverse Current ($V_R=5 \text{ V}$)	I_R	0.01(≤ 10)	0.01(≤ 10)	0.01(≤ 10)	μA
Capacitance ($V_R=0 \text{ V}$, $f=1 \text{ MHz}$)	C_0	3	3	15	pF
Response Time ($I_F=100 \text{ mA}$, $t=10 \mu s$ $R_L=50\Omega$)					
Rise Time I_V from 10% to 90%	t_R	200	200	450	ns
Fall Time I_V from 90% to 10%	t_F	150	150	200	ns
Luminous Intensity*					

Part Number	Min.	Typ.	Unit	Test Condition
LS/LY/LG 3369-EH	0.63	5	mcd	2 mA
LS/LY/LG 3369-FH	1	5	mcd	2 mA

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

See graph numbers 1, 2L, 3B, 4D, 5C, 6C, 7A, 8A, 9B, 10A in the back of this section