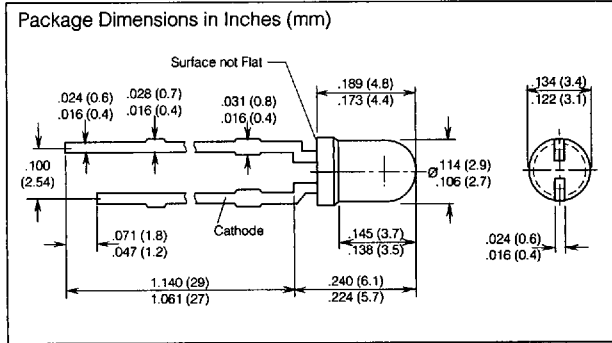
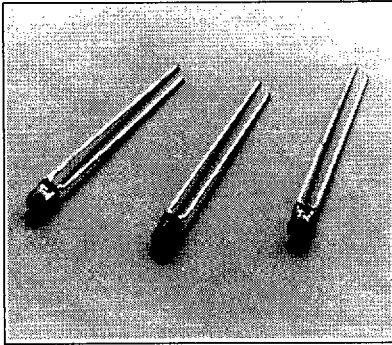


SIEMENS

RED LR 3360
SUPER-RED LS 3360
ORANGE LO 3360
YELLOW LY 3360
GREEN LG 3360
PURE GREEN LP 3360
T1 (3 mm) LED Lamp



FEATURES

- High Light Output
- Diffused Lens
- Wide Viewing Angle 70°
- With Standoffs
- T1 (3 mm) Package Size
- 1" Lead Length
- IC Compatible

DESCRIPTION

The LR 3360 series is a standard red gallium arsenide phosphide (GaAsP) LED lamp. The LS 3360 super-red, LY 3360 yellow and LO 3360 orange are premium high efficiency light emitting diode lamps fabricated with TSN (transparent substrate nitrogen) technology. The LG 3360 green and LP 3360 pure green are gallium phosphide (GaP) lamps. All have a diffused plastic lens which emits a full flooded intense light.

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) 5 V
 Forward Current (I_F) 40 mA
 Surge Current (I_{FS}) $\leq 10 \mu s$ 0.5 A
 Total Power Dissipation (P_{TOT}) $T_A=25^\circ C$ 140 mW
 Thermal Resistance,
 Junction to Air (R_{THJA}) 400 K/W

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

Parameter	Sym	Red	Red	Orange	Yellow	Green	Pure Green	Unit
Peak Wavelength (typ.)	λ_{PEAK}	660	635	610	586	565	557	nm
Dominant Wavelength (typ.)	λ_{DOM}	645	628	605	590	570	560	nm
Spectral Bandwidth								
50% I_{RELMAX} , $I_F=20$ mA	$\Delta\lambda$	35	45	40	45	25	22	nm
Viewing Angle (50%, I_V)	2ϕ	70	70	70	70	70	70	Deg.
Forward Voltage ($I_F=10$ mA)	V_F	1.6	2.0	2.0	2.0	2.0	2.0	V
Reverse Current ($V_R=5$ V)	I_R	0.01	0.01	0.01	0.01	0.01	0.01	μA
Capacitance ($V_R=0$ V, $f=1$ MHz)	C_0	25	12	8	10	15	15	pF
Rise Time	t_R	120	300	300	300	450	450	ns
Fall Time	t_F	50	150	150	150	200	200	ns

Part Number	Min.	Max.	Condition	Part Number	Min.	Max.	Condition
LR 3360-DG	0.4	3.2	10 mA	LY 3360-HL	2.5	20	10 mA
LR 3360-F	1	2	10 mA	LY 3360-J	4	8	10 mA
LR 3360-FJ	1	8	10 mA	LY 3360-JM	4	32	10 mA
LR 3360-G	1.6	3.2	10 mA	LY 3360-K	6.3	12.5	10 mA
LS 3360-HL	2.5	20	10 mA	LG 3360-GK	1.6	12.5	10 mA
LS 3360-J	4	8	10 mA	LG 3360-J	4	8	10 mA
LS 3360-K	6.3	12.5	10 mA	LG 3360-JM	4	32	10 mA
LS 3360-KN	6.3	50	10 mA	LG 3360-K	6.3	12.5	10 mA
LO 3360-HL	2.5	20.0	10 mA	LP 3360-GK	1.6	12.5	10 mA
LO 3360-J	4	8	10 mA				
LO-3360-K	6.3	12.5	10 mA				
LO-3360JM	4	32	10 mA				

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

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