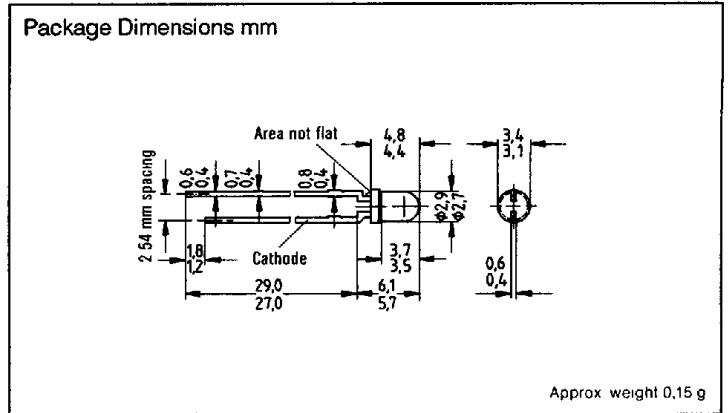
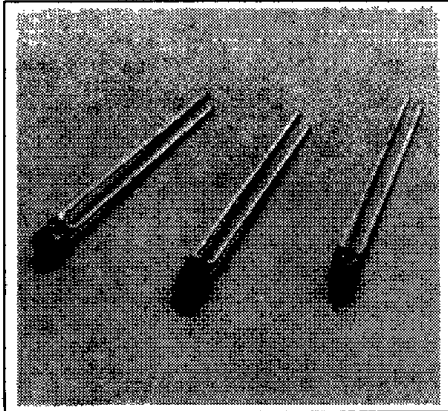


T-41-21

**SIEMENS**

**RED LR 3360**  
**SUPER-RED LS 3360**  
**YELLOW LY 3360**  
**GREEN LG 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
- I/C Compatible

**DESCRIPTION**

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

**Maximum Ratings**

Reverse Voltage ( $V_R$ )	5 V
Forward Current ( $I_F$ )	45 mA
Surge Current ( $t \leq 10 \mu s$ ) ( $I_{RM}$ )	1 A
Storage Temperature Range ( $T_{STG}$ )	-55°C to +100°C
Junction Temperature ( $T_J$ )	100°C
Total Power Dissipation ( $P_{TOT}$ ) $T_A=25^\circ C$	150 mW
Thermal Resistance Junction to Air ( $R_{thJA}$ )	500 K/W

**Characteristics ( $T_A=25^\circ C$ )**

Parameter	Symbol	LR 3360 Red	LS 3360 Super-Red	LY 3360 Yellow	LG 3360 Green	Unit
Wavelength at Peak Emission	$\lambda_{PEAK}$	660	635	586	565	nm
Dominant Wavelength	$\lambda_{DOM}$	645	628	590	567	nm
Viewing Angle (Limits for 50% of Luminous Intensity $I_V$ )	$\phi$	70	70	70	70	Deg.
Forward Voltage ( $I_F=10$ mA)	$V_F$	1.6 ( $\leq 2.0$ )	2.0 ( $\leq 2.6$ )	2.0 ( $\leq 2.6$ )	2.0 ( $\leq 2.6$ )	V
Reverse Current ( $V_R=5$ V)	$I_R$	0.01 ( $\leq 10$ )	0.01 ( $\leq 10$ )	0.01 ( $\leq 10$ )	0.01 ( $\leq 10$ )	$\mu A$
Capacitance ( $V_R=0$ V, $f=1$ MHz)	$C_0$	25	12	10	15	pF
Rise Time	$t_r$	120	300	300	450	ns
Fall Time	$t_f$	90	150	150	200	ns

**Luminous Intensity (mcd)**

Part Number	Min.	Max.	Test Condition		Part Number	Min.	Max.	Test Condition	
			10 mA	10 mA				10 mA	10 mA
LR 3360-DG	0.4	3.2	10 mA	10 mA	LY 3360-H	2.5	5.0	10 mA	10 mA
LR 3360-F	1	2	10 mA	10 mA	LY 3360-HL	2.5	20	10 mA	10 mA
LR 3360-FJ	1	8	10 mA	10 mA	LY 3360-J	4	8	10 mA	10 mA
LR 3360-G	1.6	3.2	10 mA	10 mA	LY 3360-JM	4	32	10 mA	10 mA
LS 3360-HL	2.5	20	10 mA	10 mA	LY 3360-K	6.3	12.5	10 mA	10 mA
LS 3360-J	4	8	10 mA	10 mA	LG 3360-GK	1.6	12.5	10 mA	10 mA
LS 3360-K	6.3	12.5	10 mA	10 mA	LG 3360-H	2.5	5	10 mA	10 mA
LS 3360-KN	6.3	50	10 mA	10 mA	LG 3360-J	4	8	10 mA	10 mA
LS 3360-L	10	20	10 mA	10 mA	LG 3360-JM	4	32	10 mA	10 mA
					LG 3360-K	6.3	12.5	10 mA	10 mA

See graph numbers 1, 2K (red), 2L (super-red & yellow), 2M (green), 3A, 5A, 6A, 7A, 8, 9, 10 on pages 42 - 48.