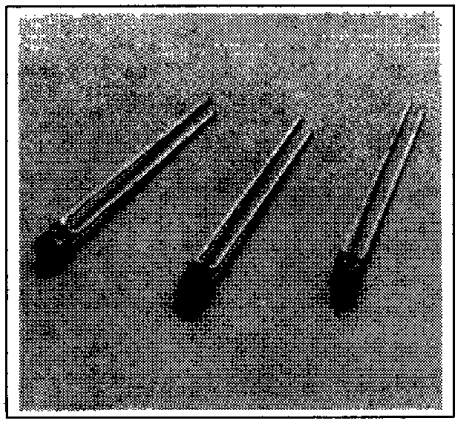
T-41-21

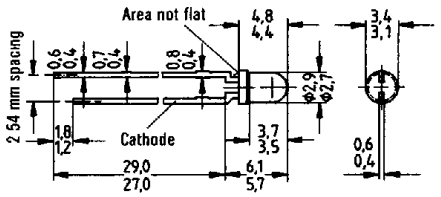
SIEMENS

RED LR 3360
SUPER-RED LS 3360
YELLOW LY 3360
GREEN LG 3360

T1 (3 mm) LED LAMP



Package Dimensions mm



Approx weight 0,15 g

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_{FS}) ..... 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°C ..... 150 mW
Thermal Resistance Junction to Air ($R_{th\,JA}$) ..... 500 K/W

Characteristics (T_A=25°C)

Parameter	Symbol	LR 3360 Red	LS 3360 Super-Red	LY 3360 Yellow	LG 3360 Green	Unit
Wavelength at Peak Emission	λ_{PEAK}	660	635	586	565	nm
Dominant Wavelength	λ_{DOM}	645	628	590	567	nm
Viewing Angle (Limits for 50% of Luminous Intensity I_V)	φ	70	70	70	70	Deg.
Forward Voltage (I_F=10 mA)	V_F	1.6 (≤2.0)	2.0 (≤2.6)	2.0 (≤2.6)	2.0 (≤2.6)	V
Reverse Current (V_R=5 V)	I_R	0.01 (≤10)	0.01 (≤10)	0.01 (≤10)	0.01 (≤10)	µA
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
LR 3360-DG	0.4	3.2	10 mA	LY 3360-H	2.5	5.0	10 mA
LR 3360-F	1	2	10 mA	LY 3360-HL	2.5	20	10 mA
LR 3360-FJ	1	8	10 mA	LY 3360-J	4	8	10 mA
LR 3360-G	1.6	3.2	10 mA	LY 3360-JM	4	32	10 mA
LS 3360-HL	2.5	20	10 mA	LY 3360-K	6.3	12.5	10 mA
LS 3360-J	4	8	10 mA	LG 3360-GK	1.6	12.5	10 mA
LS 3360-K	6.3	12.5	10 mA	LG 3360-H	2.5	5	10 mA
LS 3360-KN	6.3	50	10 mA	LG 3360-J	4	8	10 mA
LS 3360-L	10	20	10 mA	LG 3360-JM	4	32	10 mA
				LG 3360-K	6.3	12.5	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.