

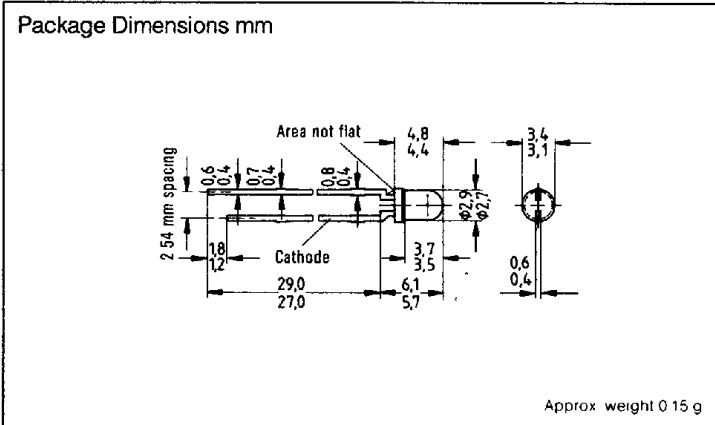
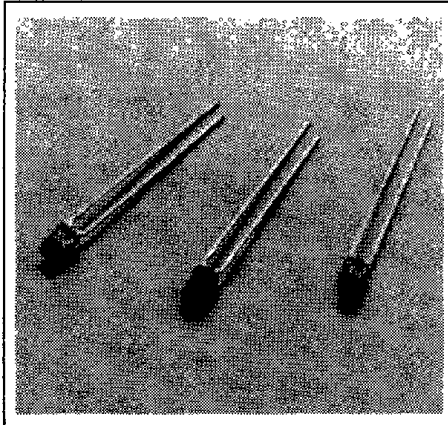
SIEMENS

SUPER-RED LS 3340 T-41-21

YELLOW LY 3340

GREEN LG 3330

T1 (3 mm) LED LAMP



LED Lamps

FEATURES

- High Light Output
- Lens: Super-Red, Yellow – Tinted Clear
Green – Colorless Clear
- Viewing Angle 50°
- T1 (3 mm) Package Size
- 1" Lead Length
- I/C Compatible

DESCRIPTION

The LS 3340 super-red series and the LY 3340 yellow are premium high efficiency light emitting diode lamps fabricated with TSN (transparent substrate nitrogen) technology. The LG 3330 green series 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 ($t = 10 \mu s$) (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}) $T_A = 25^\circ C$	.....	150 mW
Thermal Resistance Junction to Air (R_{THA})	.....	500 K/W

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

Parameter	Symbol	LS 3340 Super-Red	LY 3340 Yellow	LG 3330 Green	Unit
Wavelength at Peak					
Emission	λ_{PEAK}	635	586	565	nm
Dominant Wavelength	λ_{DOM}	628	590	567	nm
Viewing Angle (Limits for 50% of Luminous Intensity I_v)	ϕ	50	50	50	Deg.
Forward Voltage ($I_F = 10$ mA)	V_F	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)	μA
Capacitance ($V_R = 0$ V, $f = 1$ MHz)	C_o	12	10	15	pF
Rise Time	t_r	300	300	450	ns
Fall Time	t_f	150	150	200	ns

Luminous Intensity (mcd)

Part Number	Min.	Max.	Test		Part Number	Min.	Max.	Test	
			Condition	Condition				Condition	Condition
LS 3340-JM	4	32	10 mA		LG 3330-KN	6.3	50	10 mA	
LS 3340-L	10	20	10 mA		LG 3330-L	10	20	10 mA	
LS 3340-LP	10	80	10 mA		LG 3330-LP	10	80	10 mA	
LS 3340-M	16	32	10 mA		LG 3330-M	16	32	10 mA	
LY 3340-HL	2.5	20	10 mA		LG 3330-N	25	50	10 mA	
LY 3340-K	6.3	12.5	10 mA						
LY 3340-KN	6.3	50	10 mA						
LY 3340-L	10	20	10 mA						
LY 3340-M	16	32	10 mA						

See graph numbers 1, 2A, 3A, 5A, 6A, 7A, 8, 9, 10 on pages 42 – 48.