

SIEMENS

TSN SUPER-RED LS 3340
TSN ORANGE LO 3340
TSN YELLOW LY 3340
GaP PURE GREEN LP 3340
GaP GREEN LG 3330
T1 (3 mm) LED Lamp



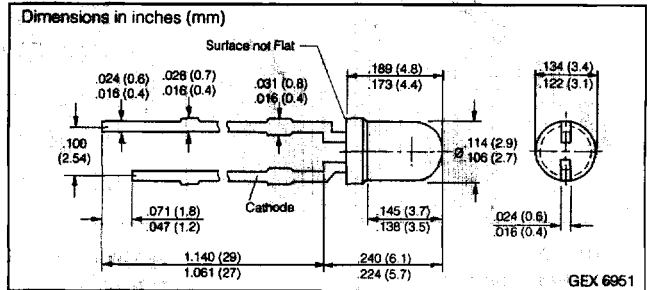
FEATURES

- **Colored, clear lens**
 - LS: red
 - LO: orange
 - LY: yellow
 - LG: colorless
 - LP: green
- **Optical coupling into light pipes**
- **Use as optical indicator**
- **Solder leads with stand-off**
- **Available taped on reel**
- **Load dump resistant per DIN 40839**

Maximum Ratings

Operating/Storage Temperature Range (T_{OP} , T_{STG}) -55°C to +100°C
 Junction Temperature (T_J) 100°C
 Forward Current (I_F)
 LS, LO, LY, LG 40 mA
 LP 30 mA
 Surge Current (I_{FS}) $t=10 \mu s$, $D=0.005$ 0.5 A
 Reverse Voltage (V_R) 5 V
 Power Dissipation (P_{TOT}) $T_A \leq 25^\circ C$
 LS, LO, LY, LG 140 mW
 LP 100 mW
 Thermal Resistance,
 Junction to Air (R_{THJA}) 400 K/W

See graph numbers OHL01698, OHL01646, OHL01283, OHL01246, OHL01162, OHL01686, OHL01170, OHL02104, OHL02105, OHL02106, OHL02150 beginning on page 4-92.



Characteristics $T_A=25^\circ C$, all values typical unless otherwise noted

Parameter	Sym.	LS	LY	LO	LG	LP	Unit	Condition
Peak Wavelength	λ_{PEAK}	635	586	610	565	557	nm	$I_F=20 \text{ mA}$
Dominant Wavelength	λ_{DOM}	628	590	605	570	560		
Spectral Bandwidth 50% I_{RELMAX}	$\Delta\lambda$	45		40	25	22		
Viewing Angle, 50% I_V	2ϕ	50					Deg.	
Forward Voltage	V_F	2.0 (≤ 2.6)					V	$I_F=10 \text{ mA}$
Reverse Current	I_R	0.01 (≤ 10)					μA	$V_R=5 \text{ V}$
Capacitance	C_0	12	10	8	15		pF	$V_R=0 \text{ V}$, $f=1 \text{ MHz}$
Switching Times							ns	$I_F=100 \text{ mA}$
t_r , 10% to 90%	t_r	300			450			$t_p=10 \mu s$
t_f , 90% to 10%	t_f	150			200			$R_L=50 \Omega$

Luminous Intensity*, I_V , mcd, $I_F=10 \text{ mA}$

Part Number	Min.	Max.	Part Number	Min.	Max.
LS 3340-KN	6.3	50	LY 3340-M	16	32
LS 3340-L	10	20	LY 3340-N	25	52
LS 3340-M	16	32	LY 3340-LP	10	80
LS 3340-N	25	50	LG 3330-KN	6.3	50
LS 3340-LP	10	80	LG 3330-L	10	20
LO 3340-KN	6.3	50	LG 3330-M	16	32
LO 3340-L	10	20	LG 3330-N	25	50
LO 3340-M	16	32	LG 3330-LP	10	80
LO 3340-N	25	50	LP 3340-JL	4.0	20
LO 3340-LP	10	80	LP 3340-K	6.3	12.5
LY 3340-JM	4	32	LP 3340-L	10	20
LY 3340-L	10	20	LP 3340-KM	6.3	32

* Luminous intensity ratio of one packaging unit $I_{VMAX}/I_{VMIN} \leq 2.0$.