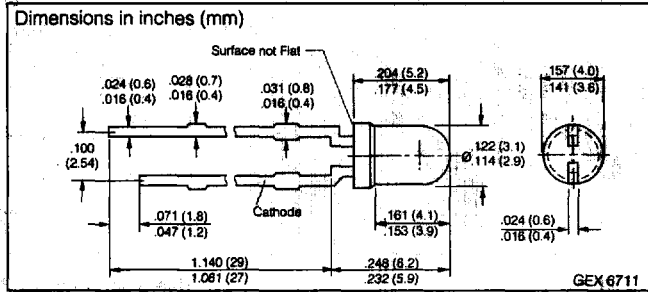
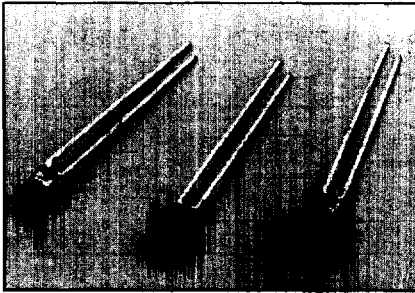


# SIEMENS

## TSN SUPER-RED **LS 3341** TSN YELLOW **LY 3341** GaP GREEN **LG 3341** GaP PURE GREEN **LP 3341** T1 (3 mm) LED Lamp



### FEATURES

- Colored, clear package
  - LS: red
  - LY: yellow
  - LG/LP: green
- High luminous intensity
- Optical coupling into light pipes
- 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, 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, Ly, LG	140 mW
LP	100 mW
Thermal Resistance,	
Junction to Air ( $R_{THJA}$ )	400 K/W

See graph numbers OHL01698, OHL01657, OHL01170, OHL02104, OHL02105, OHL02106, OHL01263 beginning on page 4-92.

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

Parameter	Sym.	Super-Red	Yellow	Green	Unit	Condition
Peak Wavelength	$\lambda_{PEAK}$	635	586	565	nm	$I_F=20$ mA
Dominant Wavelength	$\lambda_{DOM}$	628	590	570		
Spectral Bandwidth 50% $I_{RELMAX}$	$\Delta\lambda$		45	25		
Viewing Angle, 50% $I_V$	$2\phi$		40		Deg.	
Forward Voltage	$V_F$		2.0 ( $\leq 2.6$ )		V	$I_F=10$ mA
Reverse Current	$I_R$		0.01 ( $\leq 10$ )		$\mu A$	$V_R=5$ V
Capacitance	$C_0$	12	10	15	pF	$V_R=0$ V, $f=1$ MHz
Switching Times					ns	$I_F=100$ mA $t_p=10 \mu s$ $R_L=50 \Omega$
$I_V$ , 10% to 90%	$t_R$		300	450		
$I_V$ , 90% to 10%	$t_F$		150	200		

### Luminous Intensity\*, $I_V$ , mcd

Part Number	Min.	Max.	Part Number	Min.	Max.	Condition
LS 3341-LP	10	80	LG 3341-KN	6.3	50	$I_F=10$ mA
LS 3341-M	16	32	LG 3341-M	16	32	
LS 3341-N	25	50	LG 3341-N	25	50	
LS 3341-P	40	80	LG3341-MQ	16	125	
LS 3341-MQ	16	125	LP 3341-JM	4	32	
LY 3341-LP	10	80	LP 3341-K	6.3	12.5	
LY 3341-M	16	32	LP 3341-L	10	20	
LY 3341-N	25	50	LP 3341-M	16	32	
LY 3341-P	40	80	LP 3341-KN	6.3	50	
LY 3341-MQ	16	125				

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