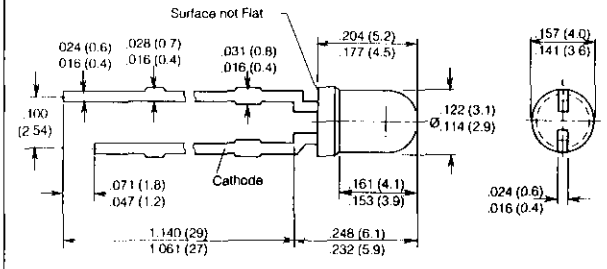
SIEMENS

SUPER-RED LS 3341
YELLOW LY 3341
GREEN LG 3341

T1 (3 mm) LED Lamp

Package Dimensions in Inches (mm)



FEATURES

- **High Light Output**
- **Lens–Tinted Clear**
- **Viewing Angle 40°**
- **T1 (3 mm) Package Size**
- **1" Lead Length**
- **IC Compatible**

DESCRIPTION

The LS 3341 super-red series and the LY 3341 yellow are premium high efficiency light emitting diode lamps fabricated with TSN (transparent substrate nitrogen) technology. The LG 3341 green series is a gallium phosphide (GaP) lamp. All have a clear plastic lens.

Maximum Ratings

Operating Temperature Range (T_{OP}) ..... −55°C to +100°C
Storage Temperature Range (T_{STG}) ..... 55°C to +100°C
Junction Temperature (T_J) ..... 100°C
Reverse Voltage (V_R) ..... 5 V
Forward Current (I_F) ..... 40 mA
Surge Current (I_{FS}) t=10 µs ..... 0.5 A
Total Power Dissipation (P_{TOT}) T_A=25°C ..... 140 mW
Thermal Resistance Junction to Air (R_{THJA}) ..... 400 K/W

Characteristics (T_A=25°C) All values typical unless otherwise noted

Parameter	Sym	LS 3341 Super-Red	LY 3341 Yellow	LG 3341 Green	Unit
Peak Wavelength (I_F=20 mA)	λ_{PEAK}	635	586	565	nm
Dominant Wavelength (I_F=20 mA)	λ_{DOM}	628	590	570	nm
Spectral Bandwidth (50%$I_{REL\,MAX}$, I_F=20 mA)	$\Delta\lambda$	45	45	25	nm
Viewing Angle (50% I_V)	2φ	40	40	40	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_0	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 Condition	Part Number	Min.	Max.	Test Condition
LS 3341-KN	6.3	50	10 mA	LG 3341-JM	4	32	10 mA
LS3341-M	16	32	10 mA	LG 3341-L	10	20	10 mA
LS 3341-MQ	16	125	10 mA	LG 3341-LP	10	80	10 mA
LS 3341-N	25	50	10 mA	LG 3341-M	16	32	10 mA
LY3341-JM	4	32	10 mA				
LY 3341-L	10	20	10 mA				
LY 3341-LP	10	80	10 mA				
LY3341-M	16	32	10 mA				

* Luminous intensity ratio of one packaging unit I_{VMAX}/I_{VMIN} ≤2

See graph numbers 1, 2C, 3A, 4A, 5A, 6A, 7A, 8A, 9A, 10A in the back of this section.