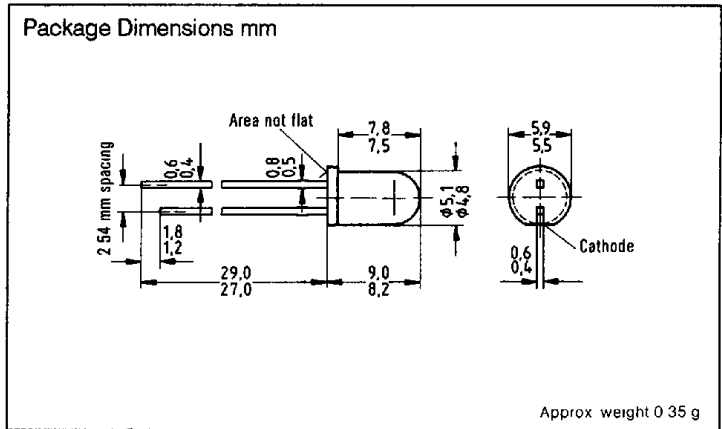
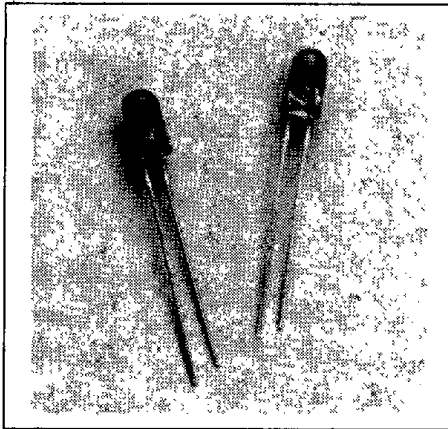


SIEMENS

T-41-21 **RED LR 5480**
SUPER-RED LS 5480
YELLOW LY 5480
GREEN LG 5480

T1³/₄ (5 mm) LED LAMP



FEATURES

- Diffused Lens
- Wide Viewing Angle 80°
- Without Standoffs
- T1³/₄ (5 mm) Package Size
- 1" Lead Length
- I/C Compatible

DESCRIPTION

The LR 5480 series is a standard red gallium arsenide phosphide (GaAsP) LED lamp. The LS 5480 super-red and LY 5480 yellow are premium high efficiency light emitting diode lamps fabricated with TSN (transparent substrate nitrogen) technology. The LG 5480 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 ≤ 10 μs) (I _{SM})	.....	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(A)})	.....	500 KW

Characteristics (T_A=25°C)

Parameter	Symbol	LR 5480 Red	LS 5480 Super-Red	LY 5480 Yellow	LG 5480 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	80	80	80	80	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 _D	25	12	10	15	pF
Rise Time	t _r	120	300	300	450	ns
Fall Time	t _f	50	150	150	200	ns

Luminous Intensity (mcd)

Part Number	Min.	Max.	Test Condition	Part Number	Min.	Max.	Test Condition
LR 5480-CF	0.25	2	10 mA	LY 5480-GK	1.6	12.5	10 mA
LR 5480-D	0.4	0.8	10 mA	LY 5480-H	2.5	5.0	10 mA
LR 5480-DG	0.4	3.2	10 mA	LY 5480-J	4	8	10 mA
LR 5480-E	0.63	1.25	10 mA	LY 5480-JM	4	32	10 mA
LR 5480-F	1	2	10 mA	LY 5480-K	6.3	12.5	10 mA
LS 5480-GK	1.6	12.5	10 mA	LG 5480-GK	1.6	12.5	10 mA
LS 5480-J	4	8	10 mA	LG 5480-H	2.5	5	10 mA
LS 5480-JM	4	32	10 mA	LG 5480-J	4	8	10 mA
LS 5480-K	6.3	12.5	10 mA	LG 5480-JM	4	32	10 mA
LS 5480-L	10	20	10 mA	LG 5480-K	6.3	12.5	10 mA

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