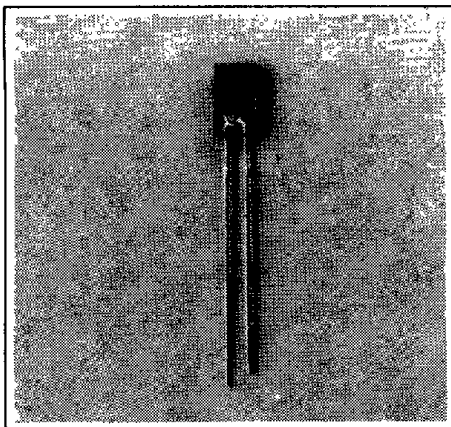


SIEMENS

RED LR B480 T-41-23
SUPER-RED LS B480
YELLOW LY B480
GREEN LG B480
RECTANGULAR LED LAMP

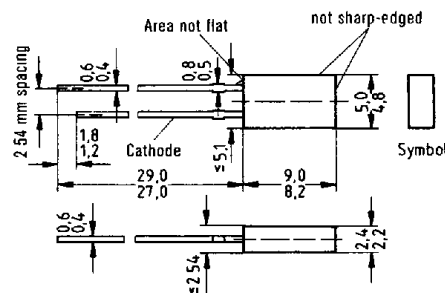
**FEATURES**

- Red Partly Diffused Lens, LR B480 and LS B480
- Yellow Partly Diffused Lens, LY B480
- Green Partly Diffused Lens, LG B480
- 1 1/4 (5 mm) Size Rectangular Shape
- Minimum Lead Length 1"
- 1/16" Lead Spacing
- I/C Compatible

DESCRIPTION

The LR B480 is a standard red GaAsP LED lamp. The LS B480 super-red and LY B480 yellow are light emitting diode lamps fabricated with TSN (transparent substrate nitrogen) technology. The LG B480 green is a gallium phosphide LED lamp. All these lamps have a diffused lens which forms an evenly dispersed rectangular head-on light. The can be used singly as indicators or stacked together to form arrays.

Package Dimensions mm



Approx. weight 0.25 g

LED Lamps

Maximum Ratings

Reverse Voltage (V_R)	5 V
Forward Current (I_F)	45 mA
Surge Current (I_{FS} ($t \leq 10 \mu s$))	1 A
Storage Temperature (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/Air (R_{THA})	500 K/W

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

Parameter	Symbol	LR B480 Red	LS B480 Super-Red	LY B480 Yellow	LG B480 Green	Unit
Wavelength of Emitted Light	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 , shielded against lateral emission of light)	ϕ	100	100	100	100	Deg
Forward Voltage ($I_F = 20$ 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)	C_0	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 B480-BD	0.16	0.8	10 mA	LY B480-GK	1.6	12.5	10 mA
LR B480-C	0.25	0.5	10 mA	LY B480-H	2.5	5.0	10 mA
LS B480-EH	0.63	0.5	10 mA	LG B480-EH	0.63	5	10 mA
LS B480-G	1.6	3.2	10 mA	LG B480-F	1	2	10 mA
LS B480-GK	1.6	12.5	10 mA	LG B480-G	1.6	3.2	10 mA
LS B480-H	2.5	5	10 mA	LG B480-GK	1.6	12.5	10 mA
LY B480-EH	0.63	5	10 mA	LG B480-H	2.5	5.0	10 mA
LY B480-F	1	2	10 mA				
LY B480-G	1.6	3.2	10 mA				

See graph numbers 1, 2G, 3A, 4A (yellow & green only), 5A, 6A, 7A, 8, 9, 10 on pages 42 - 48.