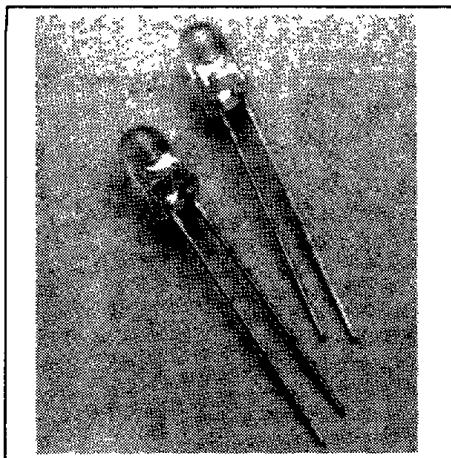


SIEMENS**LB 5410****BLUE T1^{3/4} (5 mm) LED LAMP**

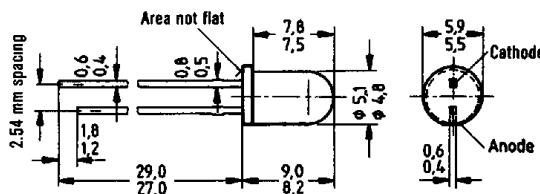
T-41-21

**FEATURES**

- Pure Blue Light (480 nm)
- Clear T1^{3/4} (5 mm) Plastic Package
- 1" Minimum Lead Length
- High Brightness
- TTL Compatible

DESCRIPTION

The LB 5410 is a Silicon Carbide (SiC) LED, emitting a pure blue light from a clear T1^{3/4} (5 mm) plastic package. The LB 5410 is ideal for such applications as: spectroscopy, calibration, and light sources in medical equipment.

Package Dimensions mm

Approx. weight 0.35 g

Maximum Ratings

Reverse Voltage (V_r)	1 V
Forward Current (I_f)	25 mA
Storage Temperature (T_{sma})	-55°C to +100°C
Junction Temperature (T_j)	100°C
Total Power Dissipation (P_{tot}) $T_A=25^\circ\text{C}$	150 mW
Thermal Resistance Junction-to-Air (R_{thJA})	500 K/W

Characteristics ($T_A=25^\circ\text{C}$)

Parameter	Symbol	Min.	Typ.	Unit
Wavelength at Peak Emission	λ_{peak}	467	467	nm
Viewing Angle	ϕ	16	16	Deg.
Forward Voltage ($I_f=20 \text{ mA}$)	V_F	4 (≤ 8)	4 (≤ 8)	V
Reverse Current ($V_r=1 \text{ V}$)	I_r	0.01 (≤ 10)	0.01 (≤ 10)	μA
Capacitance ($V_r=0 \text{ V}$, $f=1 \text{ MHz}$)	C_0	160	160	pF
Luminous Intensity ($I_f=20 \text{ mA}$)	I_v	2.5	5.0	mcd

CAUTION: Because of low reverse voltage, the polarity of the LB 5410 should be checked before inserting into a circuit.

See graph numbers 1, 2H, 3A, 4A, 6B on pages 42 – 48.