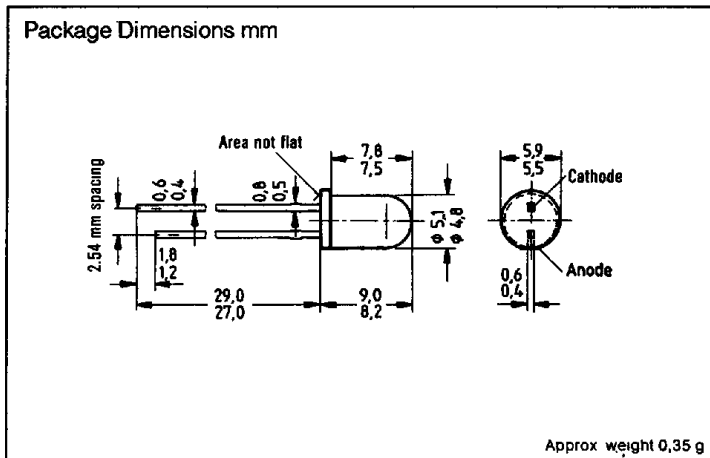
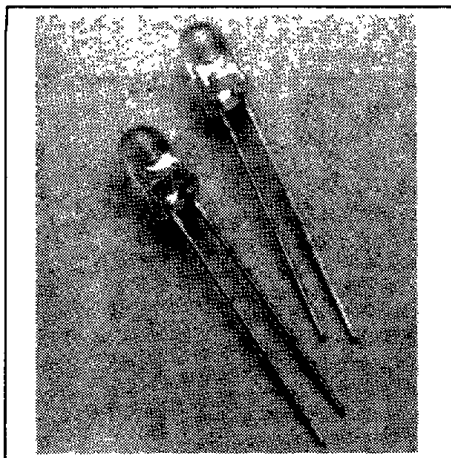


SIEMENS

LB 5410

BLUE T1³/₄ (5 mm) LED LAMP

T-41-21



FEATURES

- Pure Blue Light (480 nm)
- Clear T1³/₄ (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 T1³/₄ (5 mm) plastic package. The LB 5410 is ideal for such applications as: spectroscopy, calibration, and light sources in medical equipment.

Maximum Ratings

Reverse Voltage (V_R)	.....	1 V
Forward Current (I_F)	.....	25 mA
Storage Temperature (T_{STG})	.....	-55°C to +100°C
Junction Temperature (T_J)	.....	100°C
Total Power Dissipation (P_{TOT}) $T_A=25^\circ\text{C}$	.....	160 mW
Thermal Resistance Junction-to-Air ($R_{TH(A)}$)	.....	600 K/W

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

Parameter	Symbol	Min.	Typ.	Unit
Wavelength at Peak Emission	λ_{PEAK}		467	nm
Viewing Angle	ϕ		16	Deg.
Forward Voltage ($I_F=20\text{ mA}$)	V_F		4 (≤ 8)	V
Reverse Current ($V_R=1\text{ V}$)	I_R		0.01 (≤ 10)	μA
Capacitance ($V_R=0\text{ V}$, $f=1\text{ MHz}$)	C_0		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.