

SIEMENS

LB 5410-GO
Blue T1³/₄ (5 mm) LED Lamp

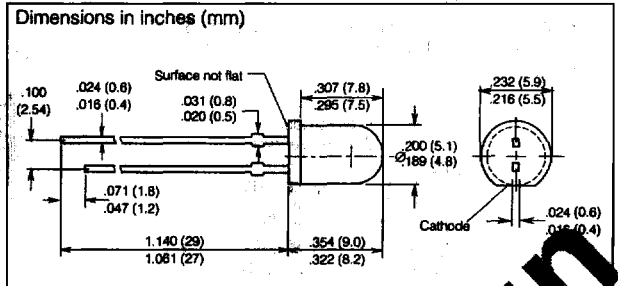


FEATURES

- 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

Operating Temperature Range (T _{OP})	.....	00°C
Storage Temperature Range (T _{STG})	.....	100°C
Junction Temperature (T _J)	.....	+100°C
Forward Current (I _F)	.....	50 mA
Surge Current (I _{FM}) t _p =10 μs	.....	0.5 A
Reverse Voltage (V _R)	.....	5 V
Power Dissipation (P _{TOT}), T _A =25°C	.....	200 mW
Thermal Resistance, Junction (R _{TH})	.....	400 K/W

Characteristics T_A=25°C

Parameter	Symbol	Value	Unit	Condition	
Peak Wavelength	λ _{PEAK}	467	nm	I _F =20 mA	
Dominant Wavelength	λ _{DOM}	480			
Spectral Bandwidth (50% I _F)	Δλ	75			
Beam Angle (50% I _V)	2φ	35	Deg.		
Forward Voltage	typ.	V _F	3.1	V	I _F =20 mA
	max.		4.5		
Switching Times, I _V	10% to 90%	t _R	800	ns	I _F =100 mA, t _p =10 μs, R _L =50 Ω
	90% to 10%	t _F			
Luminous Intensity*	I _V	3.0 (≥1.6)	mcd	I _F =20 mA	

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

See graph numbers OHL01722, OHL01731, OHL02155, OHL02156, OHL02148, OHL02157 beginning on page 4-92.

Not for New Design