

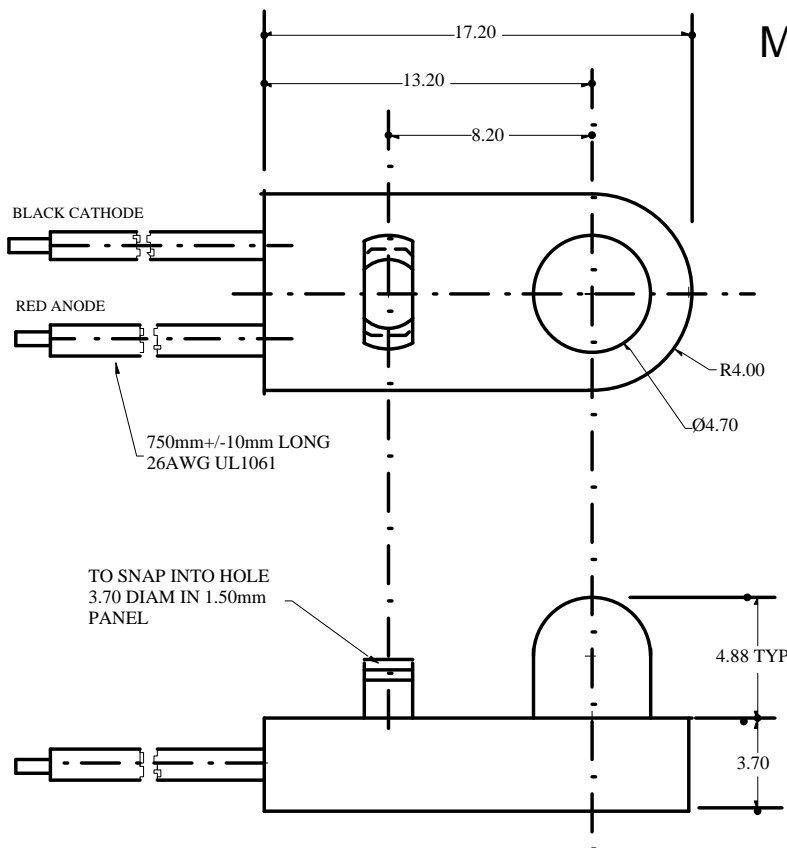
BOE100LH TO18 Plastic IR Emitter Leaded Housing

DESCRIPTION

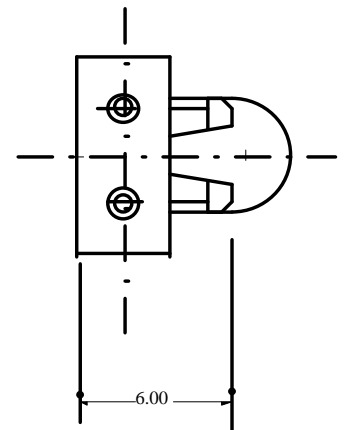
The BOE100 is a 880nm AlGaAs LED encapsulated in a clear, purple tinted plastic TO46 package housed in a clip in Polycarbonate housing with 750mm leads

FEATURES

- Min/max radiated power density selection.
- Good optical to mechanical alignment
- High radiance level.
- Clip in housing with flying leads.

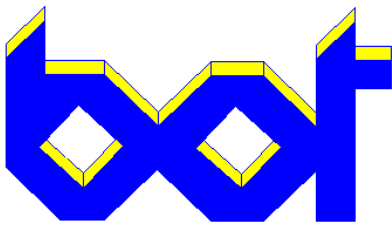


MECHANICAL DATA



- NOTES
- 1 HOUSING MATERIAL BLACK POLYCARBONATE.
 - 2 TOLERANCE X.XX +/-0.13
X.X +/-0.5
 - 3 DIMENSION mm

BEDFORD OPTO TECHNOLOGY LTD
1, BIGGAR BUSINESS PARK, BIGGAR, LANARKSHIRE, ML12 6FX
Tel: +44 (0) 1899 221221 Fax: +44 (0) 1899 221009
Website: bot.co.uk E-mail: bill@bot.co.uk



BOE100LH TO18 Plastic IR Emitter Leaded Housing

ABSOLUTE MAXIMUM RATINGS (25°C unless

STORAGE TEMP	-40 C TO +100°C
OPERATING TEMP	-40 C TO 100°C
CONTINUOUS FORWARD CURRENT	100mA
REVERSE VOLTAGE	5.0V
POWER DISSIPATION	200mW (1)
LEAD SOLDERING TEMPERATURE (Iron)	240°C for 5secs(2,3,5)
LEAD SOLDERING TEMPERATURE ⁹ (Flow)	260°C for 10secs

OPTO ELECTRONIC DATA(Ta=25°C unless stated)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDITIONS
Forward Voltage	V _f			1.70	V	I _f = 20mA
Reverse leakage Current	I _r			10	μA	V _r =5.0V
Peak Emission Wavelength	λ _p		880		nm	I _f =20mA
Emission Angle at ½ Radiated Power Density.	Θ		±35		deg	
Radiant incidence	E _o	16		26	mW/sqcm	I _f =100mA(6,7)

NOTES

1. Derate power dissipation linearly at 2.7mW/°C above 25°C.
2. RMA flux is recommended.
3. Methonal or Isopropylalcohols are recommended as cleaning agents.
4. Solder iron tip 1.6mm minimum from housing.
5. Leads not to be under stress or tension.
6. Measurment taken at the end of a 100μS pulse.
7. E_o is a measure of the average apertured radiant energy incident upon a sensing area 6.35mm diameter perpendicular to and centred on the mechanical axis of the lens and 10.7mm from the measurement surface. E_o is not necessarily uniform within the measurement area.

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