BOE100
TO18 Plastic
IR Emitter

FEATURES

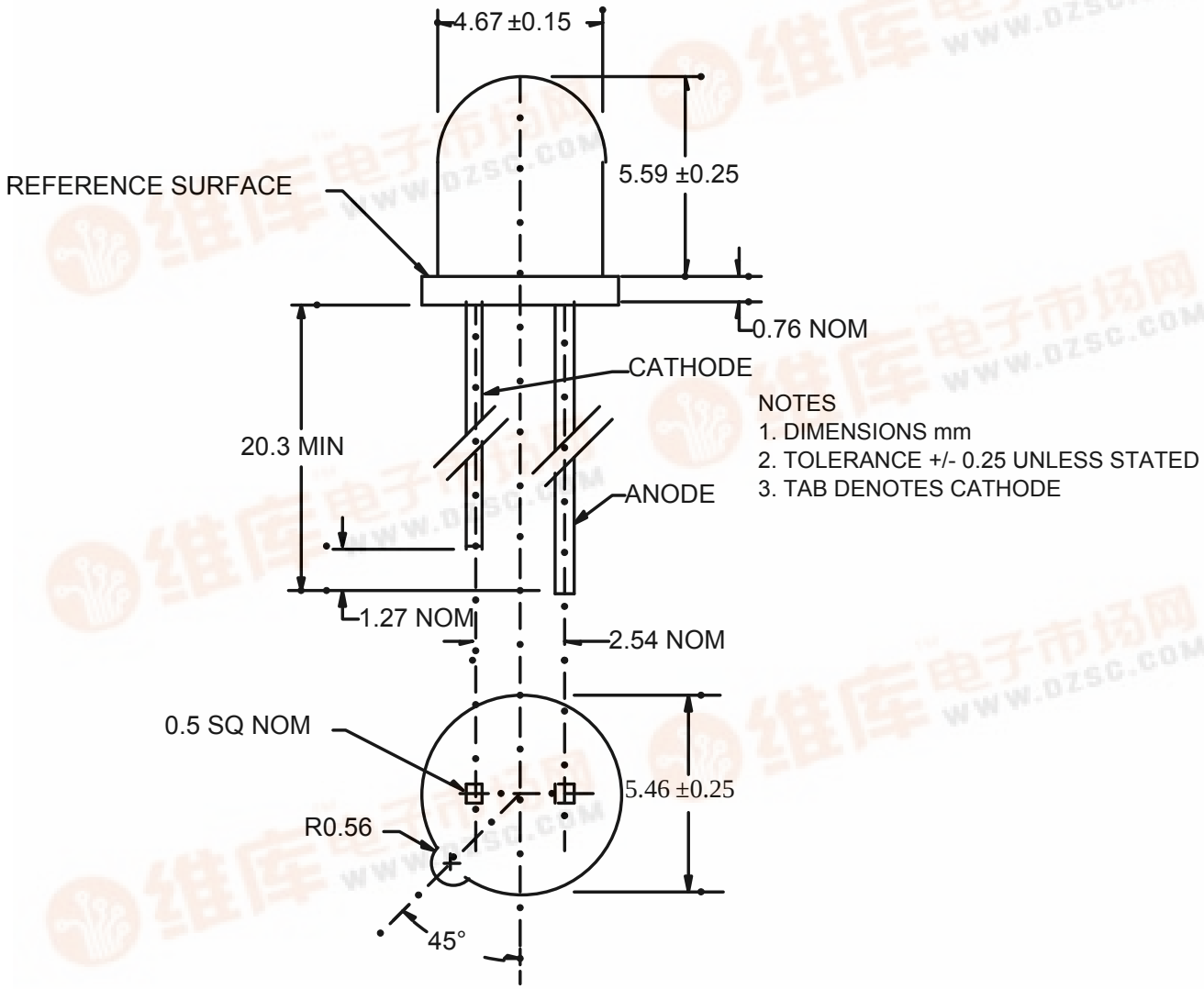
- Min/max radiated power density selection.
- Good optical to mechanical alignment
- High radiance level.
- Coloured body gives easy recognition from Phototransistor.

DESCRIPTION

The BOE100 is a 880nm AlGaAs LED encapsulated in a clear,purple tinted plastic TO46 package

MECHANICAL DATA

Do Not Scale



NOTES
1. DIMENSIONS mm
2. TOLERANCE +/- 0.25 UNLESS STATED
3. TAB DENOTES CATHODE

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BOE100
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ABSOLUTE MAXIMUM RATINGS (25°C unless otherwise noted)

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 TEMPERATURE9(Flow)	260°C for 10secs

OPTO ELECTRONIC DATA(Ta=25ºC unless stated)

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST CONDISTIONS
Forward Voltage	Vf			1.70	V	If = 20mA
Reverse leakage Current	Ir			10	µA	Vr=5.0V
Peak Emission Wavelength	λp		880		nm	If=20mA
Emission Angle at ½ Radiated Power Density.	Θ		±35		deg	
Radiant incidence	E_Θ	16		26	mW/sqcm	If=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_Θ 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.$E_\theta$is not necessarily uniform within the measurement area.

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