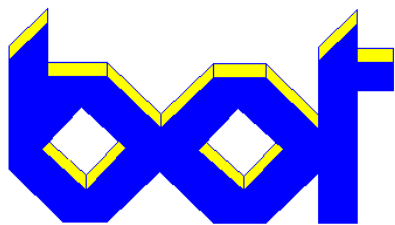


BOS052

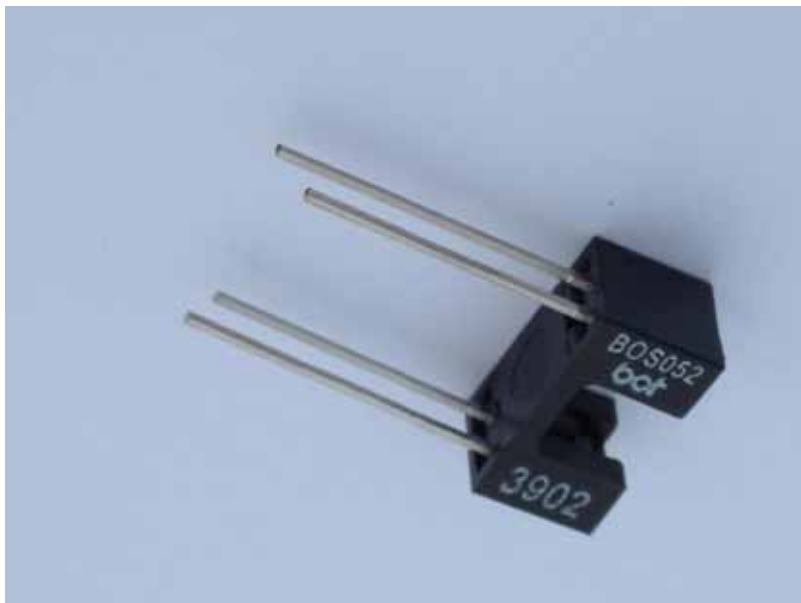
Slotted Optical Switch



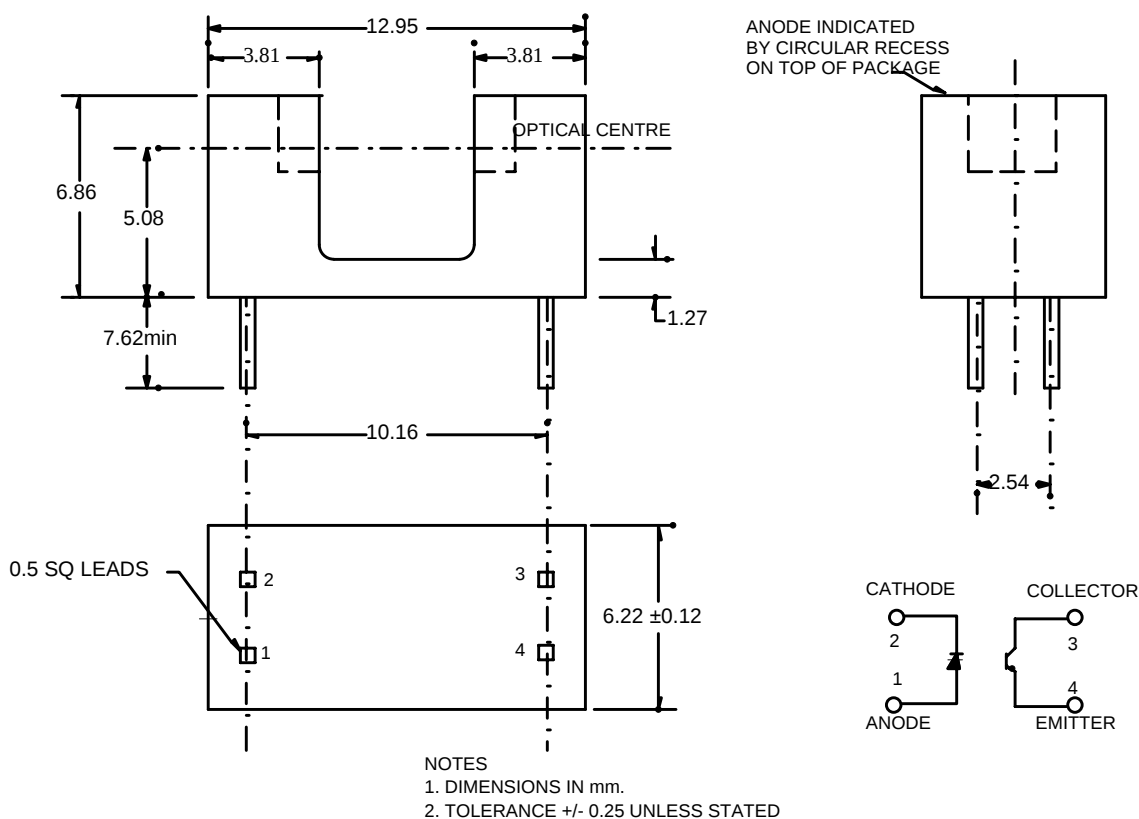
FEATURES

BOS052 is a compact optical switch with a 5.2mm slot width. It uses a plastic packaged Gallium Arsenide light emitter and NPN silicon phototransistor.

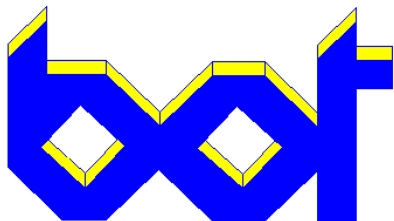
- Low profile.
- Min/Max sensitivity
- Opaque housing.
- 5.2mm slot width.
- Equivalent to Optek OPB855 and Honeywell HOA1882



MECHANICAL DATA



BEDFORD OPTO TECHNOLOGY LTD
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BOS052 Slotted Optical Switch

ABSOLUTE MAXIMUM RATINGS (25 °C)

INPUT DIODE FORWARD DC CURRENT REVERSE DC VOLTAGE POWER DISSIPATION DERATING FACTOR ABOVE 25°C	50mA 3V 100mW 1.6mW
OUTPUT SENSOR COLLECTOR-EMITTER VOLTAGE EMITTER-COLLECTOR VOLTAGE POWER DISSIPATION	30V 5V 100mW
OPERATING TEMP	-40°C to +85°C
STORAGE TEMP	-40°C to +85°C
LEAD SOLDERING TEMP (t = 3 sec 1.6mm from body)	250 °C

ELECTRICAL CHARACTERISTICS at 25 °C

SYMBOL	PARAMETER	MIN	MAX	UNITS	TEST CONDITION
INPUT DIODE V_f I_r	Forward Voltage Reverse Leakage Current		1.5 100	Volts uA	I _f = 20 mA V _r = 2V
DETECTOR BV_{CEO} BV_{ECO} I_{CEO}	Collector-emitter breakdown Emitter-Collector breakdown Collector-Emitter dark current	30 5		Volts Volts nA	I _c = 10uA I _c = 10uA V _{CE} = 10V, I _f =0
COUPLED I_c (ON) V_{ce(sat)}	On-State Collector Current Collector-emitter Saturation Volts	1.8	14.0 0.40	mA Volts	V _{ce} =5V I _f = 20 mA I _c =0.23mA I _f =20mA

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