

These components are RoHS compliant



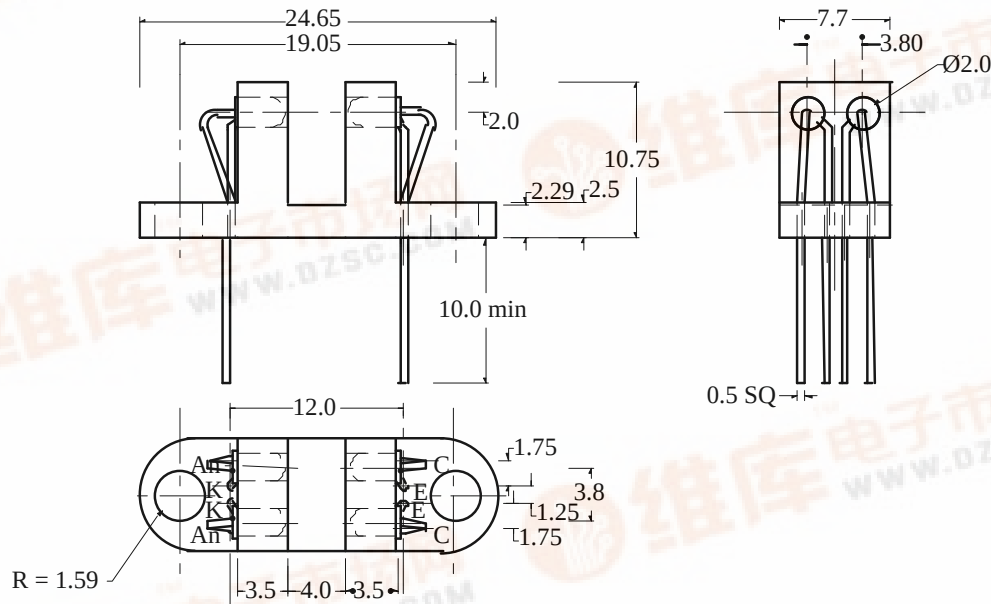
SSS-017 Two Channel Optical Switch

SSS-017 is a Two-Channel slotted optical switch using Hermetic Gallium Arsenide light emitting diodes and silicon phototransistors.

- Hermetic emitters and sensors for wide operating temperature range.
- High current transfer ratio TTL compatible output.
- Low cross talk between channels.
- 4mm slot width emitter to sensor.
- Polycarbonate filter package available SSS017F
- Custom specifications available



MECHANICAL DATA



BEDFORD OPTO TECHNOLOGY LTD

1 BIGGAR BUSINESS PARK, BIGGAR, LANARKSHIRE, ML12 6NR

Tel: +44 (0) 1899 221221 Fax: +44 (0) 1899 221009

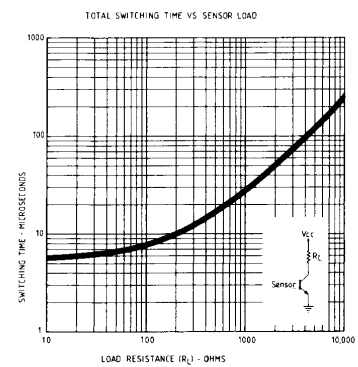
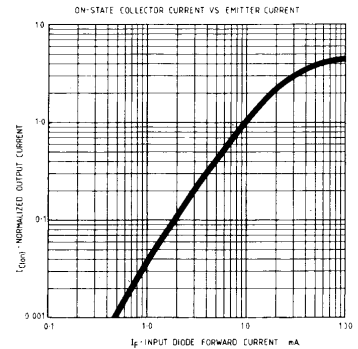
Website: bot.co.uk E-mail: bill@bot.co.uk

ISS C 11.6.07



ELECTRICAL CHARACTERISTICS at 25 °C

SYMBOL	PARAMETER	MIN	TY P	MAX	UNIT S	TEST CONDI- TION
INPUT DIODE	Forward Voltage		1.3	1.5	V	If = 20 mA
OUTPUT SENSOR	Collector-emitter Voltage	50	60		V	Ic = 1mA
BV_{CEO}	Emitter-Collector Voltage	7	8		V	Ie = 0.1mA
BV_{ECO}	Collector-Emitter dark current			25	nA	Vce = 10V IF = 0
ICEO						
COUPLED CTR	Curent Transfer ratio	10	30		%	If = 20 mA Vce = 5V
V_{CE} (SAT)	Collector-emitter saturation volt- age		0.2	0.4	V	If = 20 mA Ic = 2 mA Ic = 2 mA
T_R	Non-saturated output rise time		10		u sec	Vce = 5V
T_F	Non-saturated		25		u sec	RL = 1Kohm

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

INPUT DIODE	
FORWARD DC CURRENT	100mA
REVERSE DC VOLTAGE	2V
POWER DISSIPATION 1)	
OUTPUT SENSOR	
COLLECTOR-EMITTER VOLTAGE	50V
EMITTER-COLLECTOR VOLTAGE	7V
COLLECTOR CURRENT 2)	
OPERATING TEMP	-55 °C to +125°C
LEAD SOLDERING TEMP	240 °C

NOTE:

1) Derate linearly above 25°C at 1.6 mW/ °C

2) Derate linearly above 25°C at 2.5 mW/ °C

These
components
are RoHS
compliant