



ISPB20

DESCRIPTION

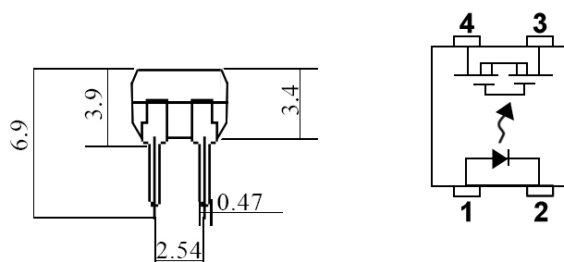
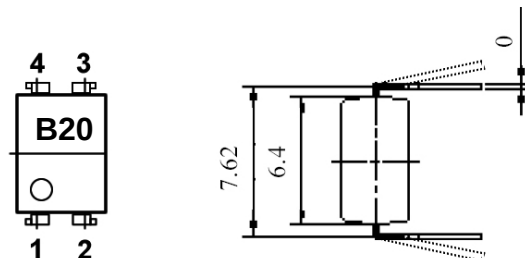
The ISPB20 is a 1-Form B solid state relay in a space saving 4 pin DIL package. The ISPB20 utilises MOSFET technology that is optically coupled to a highly efficient GaAlAs infrared light emitting diode.

FEATURES

- Options :-
 - 10mm lead spread - add G after part no.
 - Surface mount - add SM after part no.
 - Tape&reel - add SMT&R after part no.
- High Load Voltage(200V)
- High Isolation Voltage (3.75kVRMS)
- No moving parts
- High reliability
- Arc-Free without snubber circuits
- All electrical parameters 100% tested
- Custom electrical selections available

APPLICATIONS

- Telecommunications
- Industrial systems controllers
- Measuring instruments
- Signal transmission between systems of different potentials and impedances



ABSOLUTE MAXIMUM RATINGS (25°C unless otherwise specified)

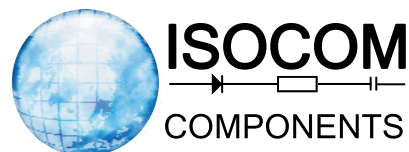
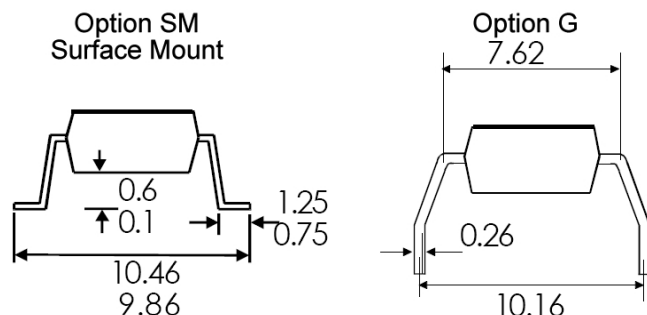
Storage Temperature	-40°C to + 100°C
Operating Temperature	-40°C to + 85°C
Lead Soldering Temperature (1/16 inch (1.6mm) from case for 10 secs)	260°C

INPUT DIODE

Forward Current	50mA
Reverse Voltage	5V

OUTPUT MOSFET

Load Voltage (AC peak or DC)	200V
Continuous Load Current	100mA
Peak Current (10mS)	250mA



ISOCOM COMPONENTS LTD
Unit 25B, Park View Road West,
Park View Industrial Estate
Hartlepool, TS25 1YD England Tel: (01429)863609
Fax : (01429) 863581 e-mail sales@isocom.co.uk
<http://www.isocom.com>

ISOCOM COMPONENTS ASIA LTD
Hong Kong Office, 1712-1713
Laurels Industrial Centre, 32 Tai Yau Street,
San Po Kong, Kowloon, Hong Kong.
Tel: +852 2995 9217 Fax : +852 8161 6292
e-mail sales@isocom.com.hk

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ Unless otherwise noted)

PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V_F)	1.0		1.4	V	$I_F = 10\text{mA}$
	Reverse Current (I_R)			10	μA	$V_R = 5\text{V}$
Output	On state Resistance (R_{on})		17	30	Ohm	$I_F = 10\text{mA}, I_L = 100\text{mA}$
	Off state Leakage Current (I_{LK})			1	μA	$I_F = 0\text{mA}, I_V = 200\text{V}$
	Turn-On Time (T_{on})		0.2	1.0	mS	$I_F = 10\text{mA}, I_L = 100\text{mA}$
	Turn-Off Time (T_{off})		0.04	2.0	mS	$I_F = 10\text{mA}, I_L = 100\text{mA}$
	Output Capacitance		150		pF	$f = 1\text{MHz}$
Coupled	Capacitance		1.0		pF	$f = 1\text{MHz}$
	Isolation Voltage	3750			Vrms	1 minute (Note 1)
	Isolation Resistance	5			Gohm	DC= 500V (Note 1)

Note 1 Measured with input leads shorted together and output leads shorted together.

Note 2 Special Selections are available on request. Please consult the factory.