



ISOCOM
COMPONENTS

ISDB40

DESCRIPTION

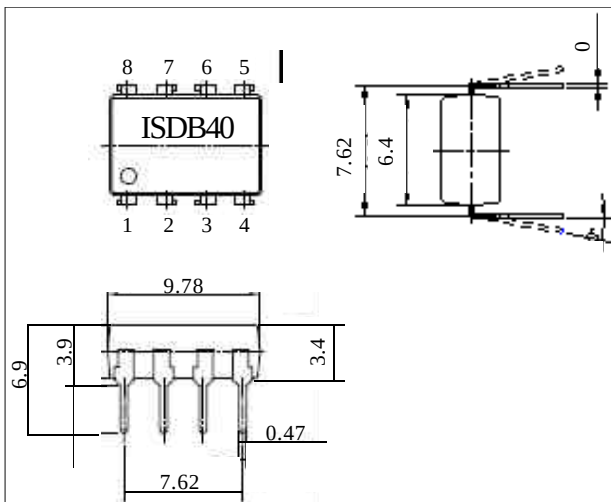
The ISDB40 is a 2-Form B solid state relay in an 8 pin DIL package. The ISDB40 utilises MOSFET technology that is optically coupled to a highly efficient GaAlAs infrared light emitting diode.

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 (400V)
- High Isolation Voltage (3.75kV_{RMS})
- 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

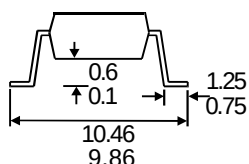
INPUT DIODE

Forward Current _____ 50mA
Reverse Voltage _____ 5V

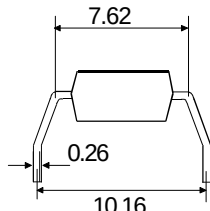
OUTPUT MOSFET

Load Voltage (AC peak or DC) _____ 400V
Continuous Load Current _____ 100mA
Peak Current (10mS) _____ 250mA

OPTION SM SURFACE MOUNT



OPTION G



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ELECTRICAL CHARACTERISTICS (T_A = 25°C Unless otherwise noted)

PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V _F)	1.0		1.4	V	I _F = 10mA
	Reverse Current (I _R)			10	μA	V _R = 5V
Output	On state Resistance (R _{on})		??	50.0	Ohm	I _F = 10mA, I _L = 100mA
	Off state Leakage Current (I _{LK})			1	uA	I _F = 0mA, I _V = 400V
	Turn-On Time (T _{on})		0.03	0.5	mS	I _F = 10mA, I _L = 100mA
	Turn-Off Time (T _{off})		0.4	1.0	mS	I _F = 10mA, I _L = 100mA
	Ouput Capacitance		150		pF	f = 1MHz
Coupled	Capacitance		1.0		pF	f = 1MHz
	Isolation Voltage	3750			V _{rms}	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.