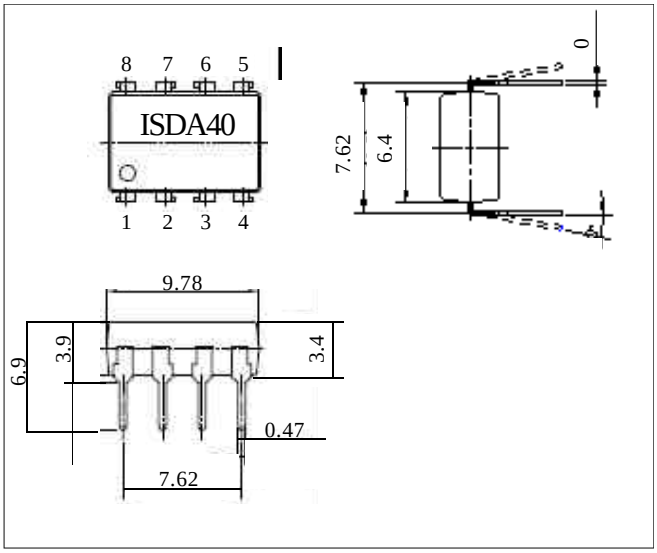
ISDA40



DESCRIPTION

The ISDA40 is a 2-Form A solid state relay in an 8 pin DIL package. The ISDA40 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

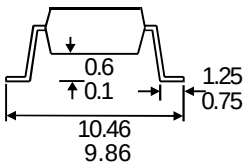
INPUT DIODE

Forward Current	50mA
Reverse Voltage	5V

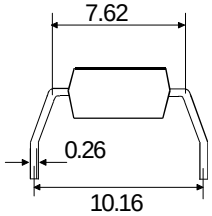
OUTPUT MOSFET

Load Voltage (AC peak or DC)	400V
Continous Load Current	130mA
Peak Current (10mS)	300mA

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 (Ron)		20	30.0	Ohm	I_F = 10mA, I_L = 130mA
	Off state Leakage Current (I_{LK})			1	uA	I_F = 0mA, I_V = 400V
	Turn-On Time (Ton)		0.2	0.5	mS	I_F = 10mA, I_L = 130mA
	Turn-Off Time (Toff)		0.03	0.3	mS	I_F = 10mA, I_L = 130mA
	Ouput Capacitance		70		pF	f = 1MHz
Coupled	Capacitance		1.0		pF	f = 1MHz
	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.