High Voltage SIL Reed Relay

DESCRIPTION

The SIL (3K) Reed Relays reduce the required space multiply compared with typical High Voltage Relays. By minimal dimensions can get separate voltage up to 3kVDV.

FEATURES

- Insulation coil to contact up to 3kVDC
- Small size to save space
- UL approval

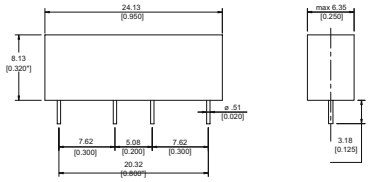
APPLICATIONS

- Cable and In-circuit tester
- Medical equipment
- High voltage test systems

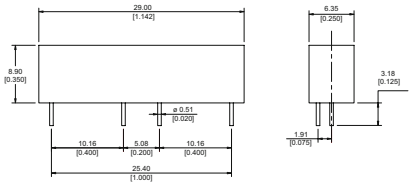
DIMENSIONS

All dimensions in mm [inch]. Unspecified Tolerances +/- 0.25mm [0.001]

for Pin Out 76

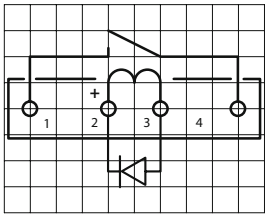


for Pin Out 77

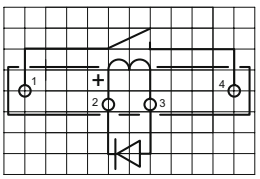


PIN OUT

76



77



COIL DATA

Contact form	Switch Model	Coil Voltage		Coil Resistance			Pull In Voltage	Drop Out Voltage	Nominal Coil Power
All Data at 20 °C	VDC	VDC		Ω			VDC	VDC	mW
		Nom.	Max.	Min.	Typ.	Max.	Max.	Min.	Typ.
1A85	2K	5	7.5	198	220	242	2	0.4	114
	3K	5	7.5	198	220	242	3	0.5	114
		12	16	450	500	550	8.4	1.8	288

* The pull-in / drop out voltages and coil resistance will change at the rate of 0,4 % / °C.

ORDER INFORMATION

Part Number Example

SIL05 - 1A85 76 L 3K

05 is the nominal voltage
1A85 is the contact form
76 is the pin-out
L without diode (option with diode =D)
3K breakdown voltage, coil - contact

RELAY DATA

All Data at 20° C	Contact Form →	Contact 85 Form A			
Contact Ratings	**Conditions**	**Min.**	**Typ.**	**Max.**	**Units**
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			100	W
Switching Voltage	DC or peak AC			1000	V
Switching Current	DC or peak AC			1.0	A
Carry Current	DC or peak AC			2.5	A
Static Contact Resistance	w/ 0.5 V & 10mA			150	mΩ
Dynamic Contact Resistance	Measured w/ 0.5 V & 50mA , 1.5 ms after closure			200	mΩ
Insulation Resistance across Contacts	Across Contact Coil - Contact	10^{12} 10^{12}			Ω
Breakdown Voltage across Contacts	Across Contact Coil - Contact	4000 3000			VDC
Operation Time incl. Bounce	at nominal voltage			1.0	ms
Release Time	with no coil suppression			0.1	ms
Capacitance	Across Contact Coil - Contact		0.2 5.0		pF
Life Expectance					
Switch Voltage 5V - 10 mA	DC <10 pF stray cap.		500		10^6 Cycles
For other load requirements, see test section on P. 112					
Environmental Data					
Shock Resistance	1/2 sinus wave for 11 ms			50	g
Vibration Resistance	10 - 2000 Hz			20	g
Ambient Temperature	10°C/ minute max. allowable	-20		70	°C
Stock Temperature	10°C/ minute max. allowable	-35		95	°C
Soldering Temperature	5 sec.			260	°C