High Voltage SIL Reed Relay

DESCRIPTION

The SIL HV Reed Relays reduce the required space multiply compared with typical High Voltage Relays. By minimal dimensions can get separate voltage up to 4kVDV.



FEATURES

- Insulation coil to contact up to 4kVDC
- · Small size to save space
- · Internal magnetic shield on all relays
- UL approval: NRNT2.E 156887; NRNT8.E 156887

APPLICATIONS

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

DIMENSIONS

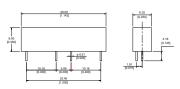
All dimensions in mm [inch]. Unspecified Tolerances +/- 0.25mm [0.001]



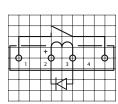
for Pin Out 76



for Pin Out 77

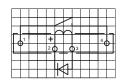


76



PIN OUT

77



ORDER INFORMATION

Part Number Example

SIL05 - 1A85 76 L 3K

05 is the nominal voltage1A85 is the contact form76 is the pin-out

L without diode (option with diode =D)3K breakdown voltage, coil - contact

COIL DATA

Contact form	Switch Model	Coil Voltage		Coil Resistance			Pull In Drop Out Voltage		Nominal Coil Power	
All Data at 20 °C	VDC	VDC		Ω			VDC	VDC	mW	
		Nom.	Max.	Min.	Тур.	Max.	Max.	Min.	Тур.	
1A85	2K	5	7.5	198	220	242	2	0.4	114	
	3K 4K	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.

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RELAY DATA

All Data at 20° C	Contact Form →	Contact 85 Form A			
Contact Ratings	Conditions	Min.	Тур.	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	Α
Carry Current	DC or peak AC			2.5	Α
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 ¹³ 10 ¹²			Ω
Breakdown Voltage across Contacts	Across Contact Coil - Contact	4 4			kVDC
Operate 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,					
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