Economical SIL Reed Relay

DESCRIPTION

Single-In Line ECO Reed Relays fulfil the technical requirements for many applications. SIL ECO have an internationally usual pin allocation and are thereby compatible to nearly all other manufacturers.

APPLICATIONS

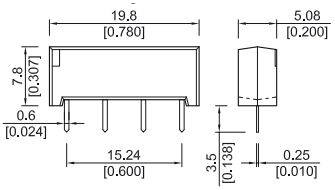
- In-circuit tester
- Consumer electronic
- Alarm & security ratio.

FEATURES

- The series is characterized by an optimal cost performance ratio.

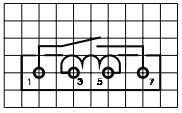
DIMENSIONS

All dimensions in mm [inch]



PIN OUT

View from top of component
2.54mm [0.10"] pitch grid



ORDER INFORMATION

Part Number Example

SIL12 - 1A - ECO

12 is the nominal voltage
1A is the contact form
ECO is the series

SIL05 - 1A - ECO
SIL12 - 1A - ECO
SIL24 - 1A - ECO

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		Ω			VDC	VDC	mW
		Nom.	Max.	Min.	Typ.	Max.	Max.	Min.	Typ.
1A		5	7.5	450	500	550	4.0	0.75	50
		12	16	900	1000	1100	9.6	1.8	145
		24	30	1800	2000	2200	18.4	3.6	290

* 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 →	Form A			
Contact Ratings	**Conditions**	**Min.**	**Typ.**	**Max.**	**Units**
Switching Power	Any DC combination of V & A not to exceed their individual max.'s			10	W
Switching Voltage	DC or peak AC			100	V
Switching Current	DC or peak AC			1.0	A
Carry Current	DC or peak AC			1.2	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^{10} 10^{12}	10^{13}		Ω
Breakdown Voltage across Contacts	Across Contact Coil - Contact	220 1500			VDC
Operation Time incl. Bounce	at nominal voltage			0.5	ms
Release Time	with no coil suppression			0.1	ms
Capacitance	Across Contact Coil - Contact		0.4 2.0		pF
Life Expectance					
Switch Voltage 5V - 10 mA	DC <10 pF stray cap.		100		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