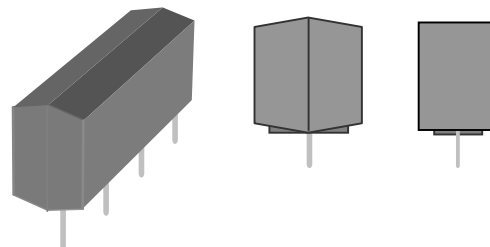


Single-In-Line (SIP) Reed Relays

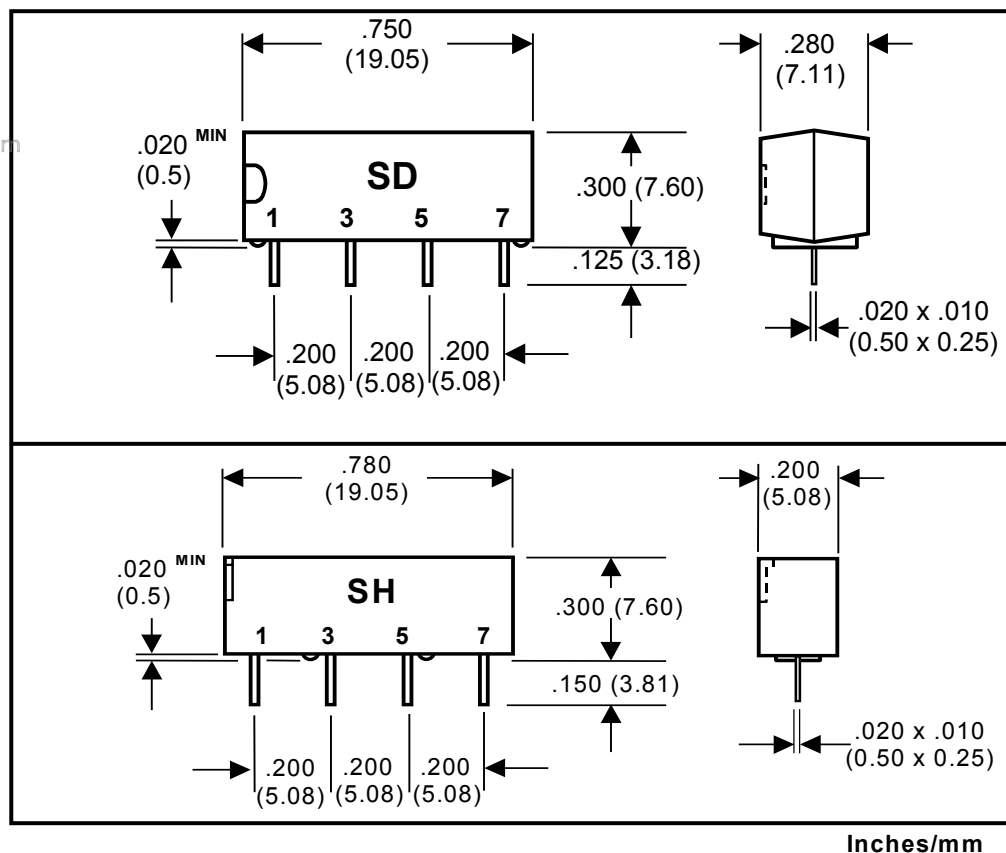
"SD" and "SH" series

- Epoxy molded sub-miniature Single-In-Line Package high quality reed relays.
- Automatic insertion compatible.
- "SH" series is the smallest SIP package reed relay and designed for high reliable automatic test equipment.



.2x.2x.2 SIP

OUTLINE DIMENSIONS



CONTACT RATINGS AND OPERATING CHARACTERISTICS (@25°C)

Characteristics	Form A/B (DRY), SD	Form A (DRY), SH	Form A (MERCURY), SD ONLY
Contact Ratings			
Power (Resistive Load) (Max.)	10 Watts	10 Watts	50 Watts
Switching Voltage (Max.)	150 VDC	100 VDC	500 VDC
Switching Current (Max.)	0.5 Amps	0.5 Amps	1.0 Amps
Contact Resistance (Max. Initial)	0.2 Ohms	0.2 Ohms	0.07 Ohms
Operating Time (Max.)	0.5 mSec	0.3 mSec	2.0 mSec
Release Time (Max.)	0.5 mSec	0.1 mSec	2.0 mSec
Bounce Time (Max.)	0.5 mSec	0.2 mSec	NONE
Insulation Resistance (Min.)	10 ¹⁰ Ohms	10 ¹¹ Ohms	10 ¹⁰ Ohms
Breakdown Voltage (Min.) (Across contacts) (Contact to coil)	250 VDC 1500 VDC	200 VDC 1500 VDC	1000 VDC 1500 VDC
Life Expectancy: (Low level) (Rated load)	100 x 10 ⁶ Operations 5 x 10 ⁶ Operations	100 x 10 ⁶ Operations 5 x 10 ⁶ Operations	1 x 10 ⁹ Operations 50 x 10 ⁶ Operations

American Relays, Inc. (562) 944-0447, Fax (562) 944-0590, E-mail: Sales@americanrelays.com

SERIES “SD” AND “SH” SINGLE-IN-LINE REED RELAYS

ENVIRONMENTAL RATINGS (Operating)

	SD & SH (DRY)	SD (MERCURY WETTED)
Temperature	-40°C to +85°C	-30°C to +85°C
Vibration	20G, 10 to 2000 Hz	5G to, 10 to 500 Hz (non-operating)
Shock	50G @ 11mS Duration	30G @ 11mS Duration (non-operating)

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PART NUMBERS AND COIL DATA (@ 25°C)

	Contact Form	Part Number No Diode	Part Number With Diode	Nom Volt VDC	Max. Volt VDC	Coil Res. Ohms +/-10%	Must Operate VDC	Must Release VDC	Schematic Top-view
SD	1A	SD1A05	SD1A05D	5	7.5	500	3.8	0.5	
		SD1A12	SD1A12D	12	18	850	8.0	1.0	
		SD1A24	SD1A24D	24	36	2200	16.0	2.0	
	1B	SD1B05	SD1B05D	5	7.5	500	3.8	0.5	
		SD1B12	SD1B12D	12	18	500	8.0	1.0	
		SD1B24	SD1B24D	24	36	1750	16.0	2.0	
	1A Mercury	SD1A05HG	SD1A05HGD	5	7.5	160	4.0	0.5	
		SE1A12HG	SE1A12HGD	12	18	500	9.0	1.0	
		SE1A24HG	SE1A24HGD	24	36	1440	18.0	2.0	
SH	1A	SH1A05	SH1A05D	5	7.5	500	3.8	0.5	
		SH1A12	SH1A12D	12	18	1000 or 1500	8.0	1.0	
		SH1A24	SH1A24D	24	36	1400 or 2000	16.0	2.0	

Note:

- Mercury wetted relays should be mounted within +/-30° from vertical position.

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