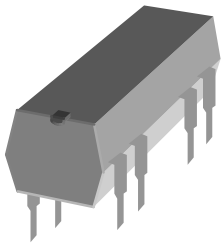
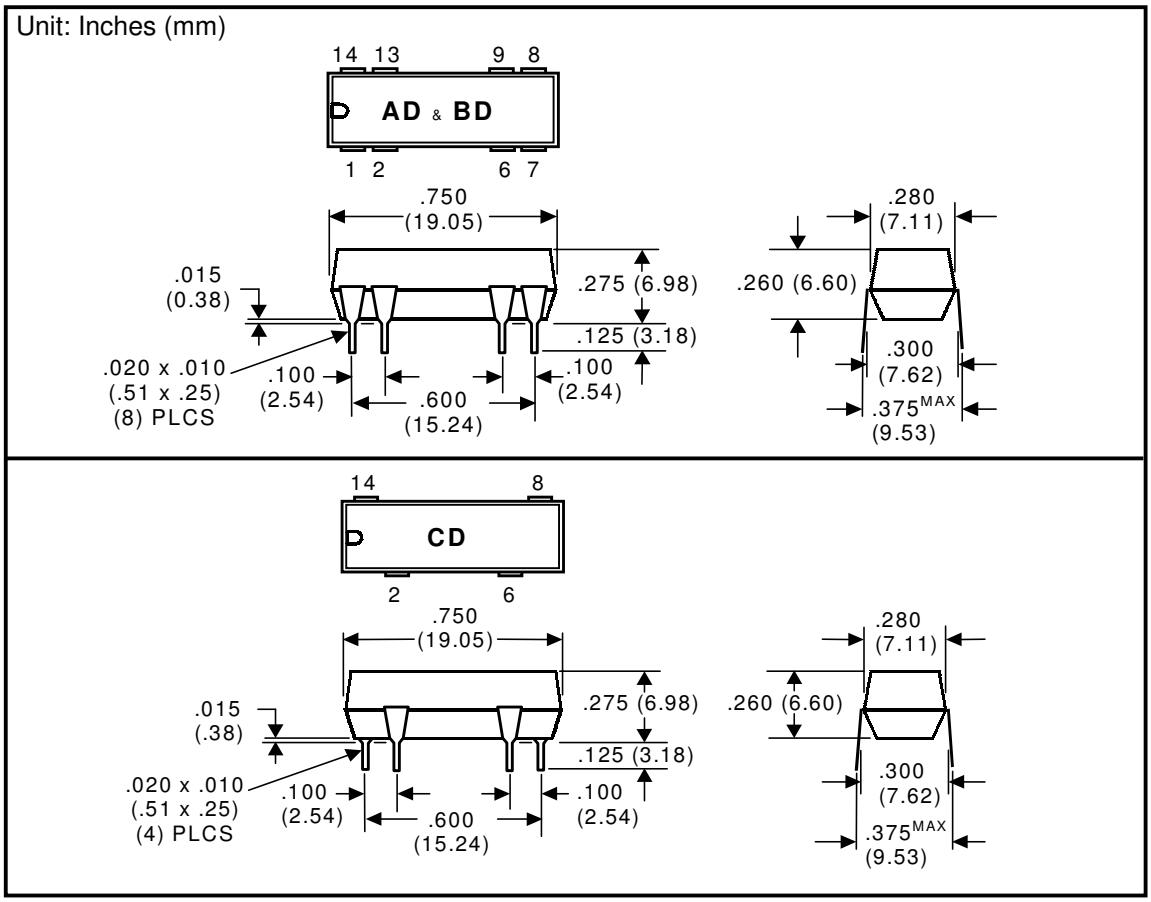
Dual In-Line (DIP) Reed Relays "AD", "BD" and "CD" series



- **Meet UL94V-O flammability Specification.**
- **TTL/DTL driver IC Compatible.**
- **Compatible with automatic insertion equipment.**

OUTLINE DIMENSIONS

Unit: Inches (mm)



CONTACT RATINGS AND OPERATING CHARACTERISTICS (@25°C)

Characteristics	Form A/B (Dry)	Form C (Dry)	Form A (MERCURY WETTED)
Power (Max.)	10 Watts	3 Watts	50 Watts
Switching Voltage (Max.)	200 VDC	100 VDC	500 VDC
Switching Current (Max.)	0.5 Amps	0.25 Amps	2.0 Amps
Carry Current (Max.)	1.5 Amps	1.0 Amps	3.0 Amps
Breakdown Voltage (Min.) **(Across contacts)** **(Contact to coil) AD & BD:** **CD:**	 250 VDC 1000 VDC 3500 VDC	 200 VDC 1000 VDC NA	 1500 VDC 1000 VDC NA
Contact Resistance (Max. Initial)	0.2 Ohms	0.2 Ohms	0.1 Ohms
Operating Time (Typical)	0.5 / 0.2 mSec	0.5 mSec	2.0 mSec
Release Time (Typical)	0.2 / 0.5 mSec	0.5 mSec	2.0 mSec
Bounce Time (Typical)	0.15 mSec	NO/NC : 0.5 / 1.5 mSec	NONE
Insulation Resistance (Min.)	10^{10} Ohms	10^{9} Ohms	10^{10} Ohms
Operating Temperature	-40°C to +85°C	-40°C to +85°C	-30°C to +85°C
Vibration	20G, 10 to 2000 Hz	20G, 10 to 2000 Hz	5G, 10 to 500 Hz (non-operating)
Shock	50G @ 11 MS duration	50G @ 11 MS duration	30G @ 11 MS duration (non-operating)

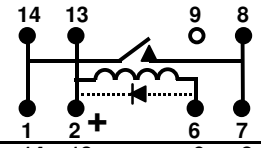
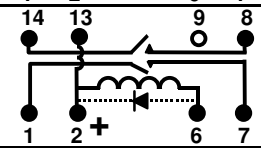
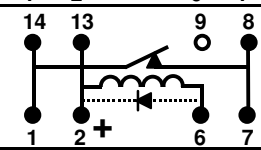
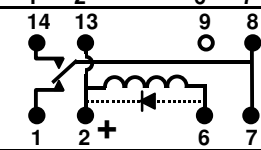
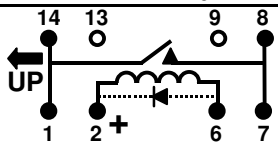
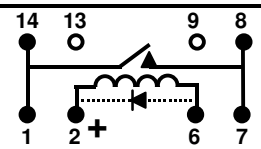
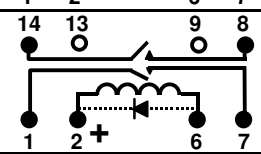
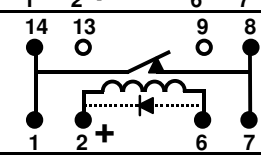
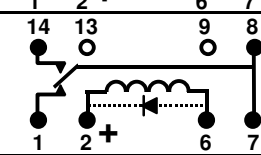
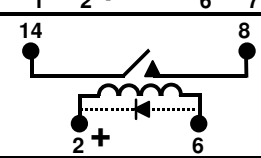
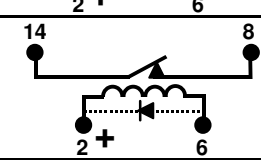
Notes:

1. Electrostatic shield is available. Pin number 9 is shield pin when electrosatic shield option is specified.
2. Mercury wetted relays should be mounted within +/- 30° from vertical position.

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

"AD", "BD" AND "CD" SERIES - DIP REED RELAYS

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
AD	1A	AD1A05	AD1A05D	5	7.5	500	3.8	0.5	
		AD1A12	AD1A12D	12	18	850	8.0	1.0	
		AD1A24	AD1A24D	24	36	2200	16.0	2.0	
	2A	AD2A05	AD2A05D	5	7.5	200	3.8	0.5	
		AD2A12	AD2A12D	12	18	500	8.0	1.0	
		AD2A24	AD2A24D	24	36	1750	16.0	2.0	
	1B	AD1B05	AD1B05D	5	7.5	500	3.8	0.5	
		AD1B12	AD1B12D	12	18	500	8.0	1.0	
		AD1B24	AD1B24D	24	36	1750	16.0	2.0	
	1C	AD1C05	AD1C05D	5	7.5	200	3.8	0.5	
		AD1C12	AD1C12D	12	18	500	8.0	1.0	
		AD1C24	AD1C24D	24	36	1750	16.0	2.0	
	1A Mercury Wetted	AD1A05HG	AD1A05HGD	5	7.5	160	4.0	0.5	
		AD1A12HG	AD1A12HGD	12	18	500	9.0	1.0	
		AD1A24HG	AD1A24HGD	24	36	1440	16.0	2.0	
BD	1A	BD1A05	BD1A05D	5	7.5	500	3.8	0.5	
		BD1A12	BD1A12D	12	18	850	8.0	1.0	
		BD1A24	BD1A24D	24	36	2200	16.0	2.0	
	2A	BD2A05	BD2A05D	5	7.5	200	3.8	0.5	
		BD2A12	BD2A12D	12	18	500	8.0	1.0	
		BD2A24	BD2A24D	24	36	1750	16.0	2.0	
	1B	BD1B05	BD1B05D	5	7.5	500	3.8	0.5	
		BD1B12	BD1B12D	12	18	500	8.0	1.0	
		BD1B24	BD1B24D	24	36	1750	16.0	2.0	
	1C	BD1C05	BD1C05D	5	7.5	200	3.8	0.5	
		BD1C12	BD1C12D	12	18	500	8.0	1.0	
		BD1C24	BD1C24D	24	36	1750	16.0	2.0	
CD	1A	CD1A05	CD1A05D	5	7.5	500	3.8	0.5	
		CD1A12	CD1A12D	12	18	850	8.0	1.0	
		CD1A24	CD1A245	24	36	2200	16.0	2.0	
	1B	CD1B05	CD1B05D	5	7.5	500	3.8	0.5	
		CD1B12	CD1B12D	12	18	500	8.0	1.0	
		CD1B24	CD1B24D	24	36	1750	16.0	2.0	