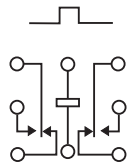


Double Pole, Electrically Held, 1 Amp and Less (Continued)

HC, HCD, HCS, HCSD



HC, HCS
Standard / Sensitive
.100 Grid Commercial Relay

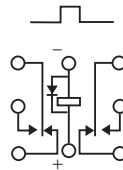


Terminal View

Product Facts

- Hermetically sealed
- Mounting pads
- Excellent RF switching

HCD, HCSD
Standard / Sensitive
.100 Grid Diode Suppressed
Commercial Relay



Terminal View

Product Facts

- Suppression diode
- Hermetically sealed
- Mounting pads
- Excellent RF switching

Electrical Characteristics

Contact Arrangement —
2 Form C (DPDT)

Contact Material —
Stationary —
Gold/platinum/palladium/silver alloy (gold plated)
Moveable —
Gold/platinum/palladium/silver alloy (gold plated)

Contact Resistance —
Before Life — 100 milliohms max. (measured @ 10 mA @ 6 Vdc)
After Life — 200 milliohms max. (measured @ 1 A @ 28 Vdc)

Mechanical Life Expectancy —
1 million operations

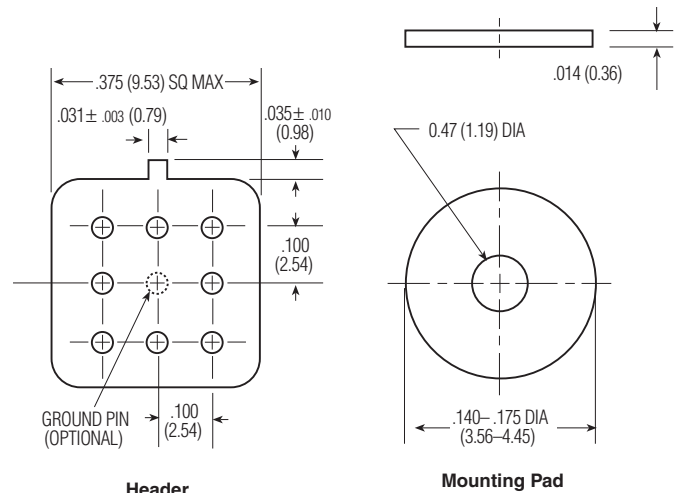
Coil Voltage —
5 to 26.5 Vdc (HC/HCD)
5 to 48 Vdc (HCS/HCSD)

Coil Power —
HC/HCD — 660 mW max. @ 25°C
HCS/HCSD — 565 mW max. @ 25°C

Duty Cycle — Continuous

Pick-up Voltage — Approximately 70% of nominal coil voltage

Pick-up Sensitivity —
HC/HCD — 180 mW max. @ 25°C
HCS/HCSD — 90 mW max. @ 25°C



Contact Ratings

Contact Load	Type	Operations Min.
1.0 A @ 28 Vdc	Resistive	100,000
250 mA @ 115 Vac, 60 Hz & 400 Hz	Resistive (Case not grounded)	100,000
100 mA @ 115 Vac, 60 Hz & 400 Hz	Resistive	100,000
0.2 A @ 28 Vdc	Inductive (0.32 Henry)	100,000
0.1 A @ 28 Vdc	Lamp	100,000
30 μA @ 50 mVdc	Low Level	1,000,000

Double Pole, Electrically Held, 1 Amp and Less (Continued)

HC, HCD, HCS, HCSD

(Continued)

Operating Characteristics

Timing —

- Operate Time —
- HC/HCD — 4.0 ms max.
- HCS/HCSD — 6.0 ms max.
- Release Time —
- HC — 3.0 ms max.
- HCS — 3.0 ms max.
- HCD — 6.0 ms max.
- (suppression diode)
- HCSD — 7.5 ms max.
- (suppression diode)

Dielectric Withstanding Voltage —

- Between Open Contacts —
- 350 Vrms 60 Hz
- Between Adjacent Contacts —
- 350 Vrms 60 Hz
- Between Contacts & Coil —
- 350 Vrms 60 Hz

Insulation Resistance —

1,000 megohms @ 500 Vdc

Standard Coil Data

	Nom. Coil Voltage (Vdc)	Coil Resistance in Ohms ±20% @ 25°C	Pickup Voltage Vdc (Max.) @ 25°C	Nom. Coil Power (mW) @ 25°C	Max. Coil Voltage	Coil Desig.
HC/HCD	5.0	64	3.8	391	5.8	5
	6.0	98	4.9	367	8.0	6
	9.0	220	7.0	368	12.0	9
	12.0	400	9.0	360	16.0	12
	18.0	880	14.0	368	24.0	18
HCS/HCSD	26.5	1,600	18.0	439	32.0	26
	5.0	100	3.5	250	7.5	5
HCS/HCSD	6.0	200	4.5	180	10.0	6
	9.0	400	6.8	203	15.0	9
	12.0	800	9.0	180	20.0	12
	18.0	1,600	13.5	203	30.0	18
	26.5	3,200	18.0	219	40.0	26
HCS/HCSD	36.0	6,500	24.0	199	57.0	36
	48.0	11,000	32.0	209	75.0	48

Environmental Characteristics

Temperature Range —

-55°C to +85°C

Weight —

- HC/HCD —
- 0.09 oz. (2.55 gms)
- HCS/HCSD —
- 0.15 oz. (4.30 gms)

Vibration Resistance —

10 G's, 10 to 500 Hz

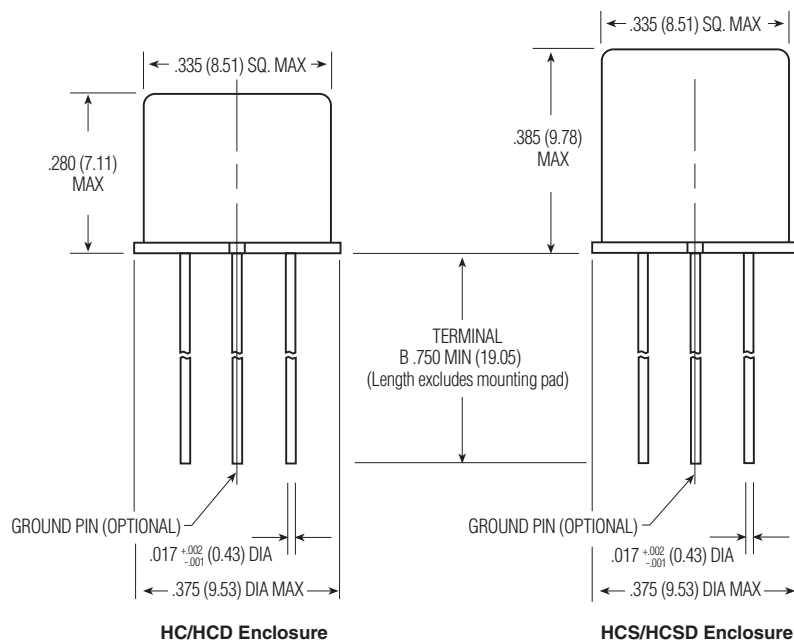
Shock Resistance —

30 G's, 6 ±1 ms

Semiconductor Characteristics

Diode —

- 100 Vdc peak inverse voltage (PIV)
- 1.0 Vdc max. transient voltage



Ordering Instructions

Catalog-selected Relays: The catalog number is derived by choosing the proper CODE for each of the relay characteristics in the order in which the codes are listed.

Specifying a Part Number Example:

Type	Diodes	Ground Pin	Mounting Pads	Coils	Terminals
HC	D	X	3	-26	B

Mouser Electronics

Authorized Distributor

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[HC-2](#) [HC-4](#) [HC-6](#) [HC-2/S4](#) [HC-4/12VDC](#) [HC-6/S2](#) [HC-2/S3](#)