

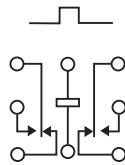
Double Pole, Electrically Held, 1 Amp and Less (Continued)

HC, HCD, HCS, HCSD



HC, HCS

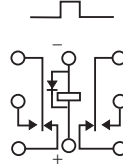
Standard / Sensitive
.100 Grid Commercial Relay



Terminal View

HCD, HCSD

Standard / Sensitive
.100 Grid Diode Suppressed
Commercial Relay



Terminal View

Product Facts

- Hermetically sealed
- Mounting pads
- Excellent RF switching

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

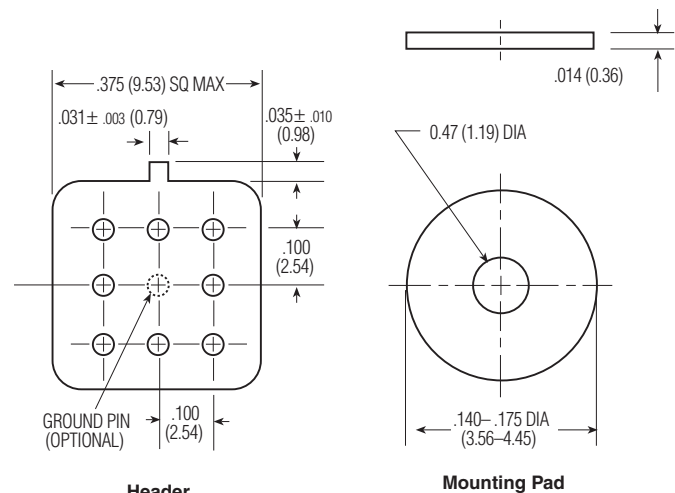
Coil Voltage —
5 to 26.5 Vdc (HC/HCD)
5 to 48 Vdc (HCS/HCSD)

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 μ A @ 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 $\pm 20\%$ @ 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
	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
	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 —

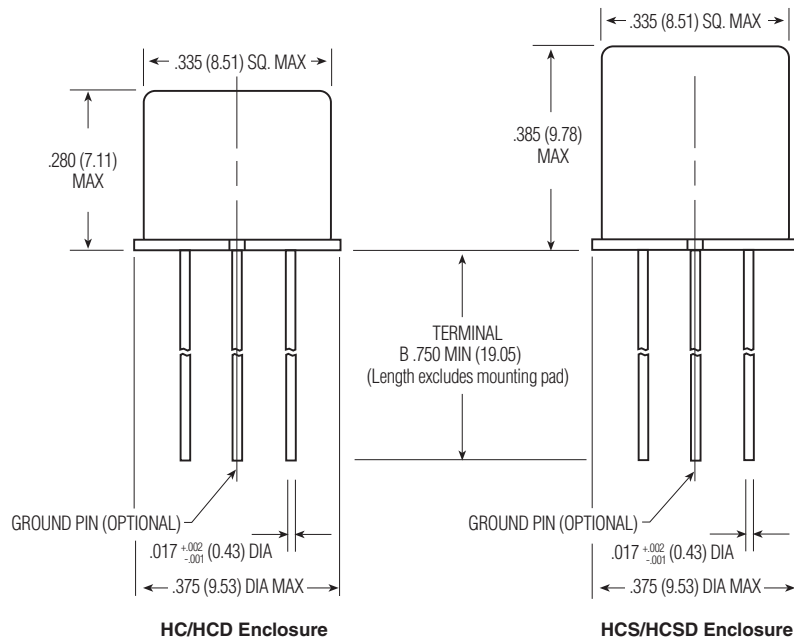
30 G's, 6 \pm 1 ms

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](#)