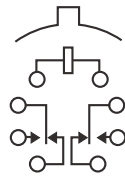


**Double Pole, Electrically Held, 1 Amp and Less** (Continued)

HM, HMD, HS, HSD



**HM, HS**  
Standard / Sensitive TO-5  
Commercial Relay



Terminal View

**Product Facts**

- Hermetically sealed
- Spreader Pads
- Excellent RF switching

**Electrical Characteristics**

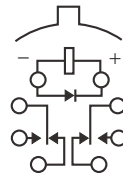
**Contact Arrangement** —  
2 Form C (DPDT)

**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

**HMD, HSD**  
Standard / Sensitive TO-5  
Diode Suppressed  
Commercial Relay



Terminal View

**Product Facts**

- Suppression Diode
- Hermetically sealed
- Spreader Pads
- Excellent RF switching

**Electrical Characteristics**

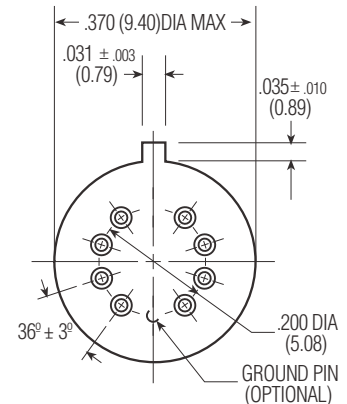
**Coil Voltage** —  
5 to 30 Vdc (HM/HMD)  
5 to 48 Vdc (HS/HSD)

**Coil Power** —  
HM/HMD — 675 mW max. @ 25°C  
HS/HSD — 565 mW max. @ 25°C

**Duty Cycle** — Continuous

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

**Pick-up Sensitivity** —  
HM/HMD — 180 mW max. @ 25°C  
HS/HSD — 90 mW max. @ 25°C



Header

**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)

**HM, HMD, HS, HSD**

(Continued)

**Operating Characteristics**

**Timing** —

- Operate Time —
- HM/HMD — 4.0 ms max.
- HS/HSD — 6.0 ms max.
- Release Time —
- HM — 3.0 ms max.
- HS — 3.0 ms max.
- HMD — 6.0 ms max.
- (suppression diode)
- HSD — 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

**Environmental Characteristics**

**Temperature Range** —

-55°C to +85°C

**Weight** —

- HM/HMD —
- 0.09 oz. (2.55 gms)
- 0.099 oz. (2.80 gms) w/ spreader pad
- HS/HSD —
- 0.12 oz. (3.40 gms)
- 0.129 oz. (3.45 gms) w/ spreader pad

**Vibration Resistance** —

10 G's, 10 to 500 Hz

**Shock Resistance** —

30 G's, 6 ±1 ms

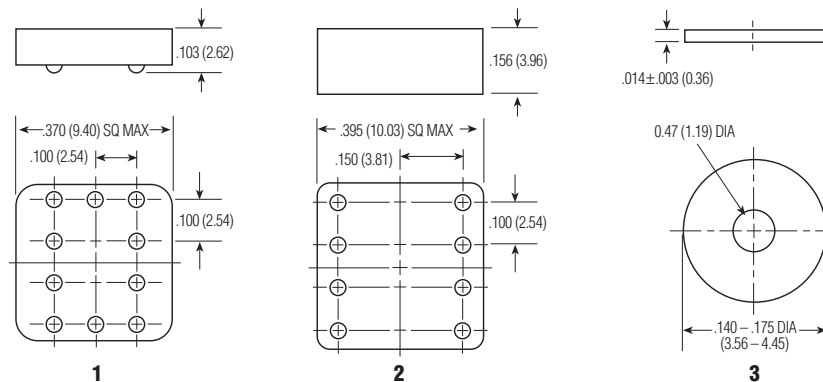
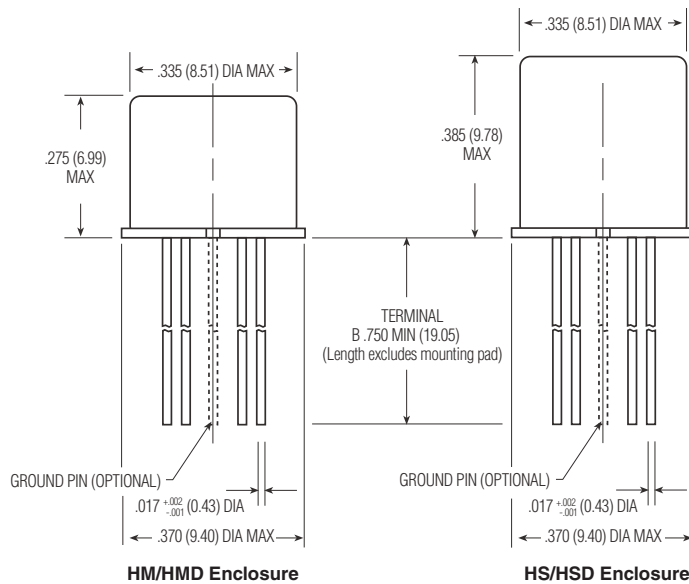
**Semiconductor Characteristics**

**Diode** —

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

**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.
HM/HMD	5.0	50	3.6	500	5.8	5
	6.0	98	4.2	367	8.0	6
	9.0	220	6.5	368	12.0	9
	12.0	390	8.4	369	16.0	12
	18.0	880	13.0	368	24.0	18
	26.5	1,560	17.0	450	32.0	26
HS/HSD	30.0	2,500	22.0	360	36.0	30
	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	850	9.0	169	20.0	12
	18.0	1,600	13.5	203	30.0	18
	26.5	3,300	18.0	213	40.0	26
	36.0	6,500	24.0	199	57.0	36
	48.0	11,000	32.0	209	75.0	48



**Spreader and Mounting Pads**

**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	Spreader/Mounting Pads	Coils	Terminals
HM	D	X	3	-26	B