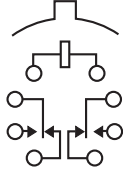


HM · HMD · HS · HSD

HM · HS

**STANDARD • SENSITIVE TO-5
COMMERCIAL RELAY**



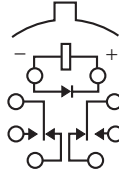
TERMINAL VIEW

FEATURES

- Hermetically sealed
- Spreader Pads
- Excellent RF switching

HMD · HSD

**STANDARD • SENSITIVE TO-5
DIODE SUPPRESSED
COMMERCIAL RELAY**



TERMINAL VIEW

FEATURES

- Suppression Diode
- 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

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

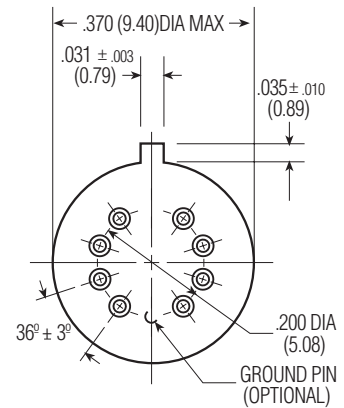
PICK-UP VOLTAGE

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

TO-5 COMMERCIAL/INDUSTRIAL RELAYS



HM · HMD · HS · HSD

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

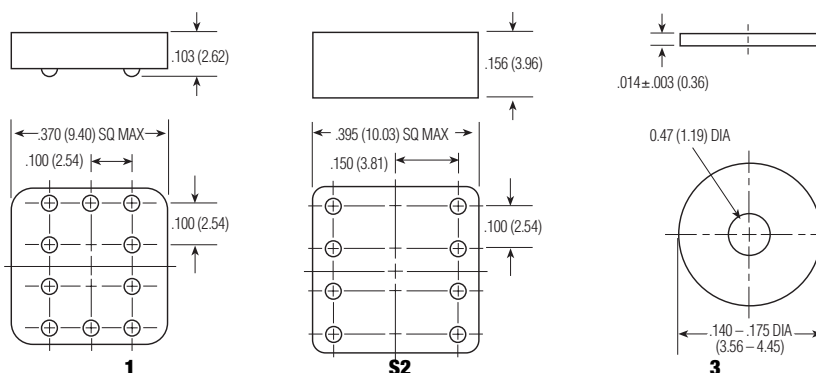
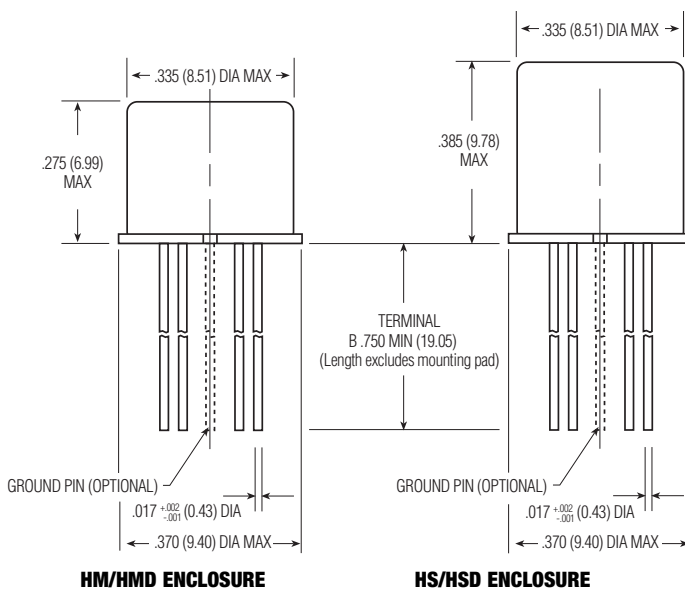
SEMICONDUCTOR CHARACTERISTICS

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
30.0	2,500	22.0	360	36.0	30	
HS/HSD	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

SPECIFYING A PART NUMBER EXAMPLE:

TYPE HM DIODES D GROUND PIN X SPREADER/MOUNTING PADS 3 COILS -26 TERMINALS B