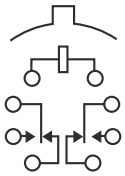
Double Pole, Electrically Held, 1 Amp and Less (Continued)

HM, HMD, HS, HSD



HM, HS

Standard / Sensitive TO-5 Commercial Relay



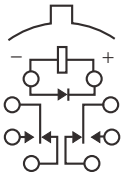
Terminal View

Product Facts

- **Hermetically sealed**
- **Spreader Pads**
- **Excellent RF switching**

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

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

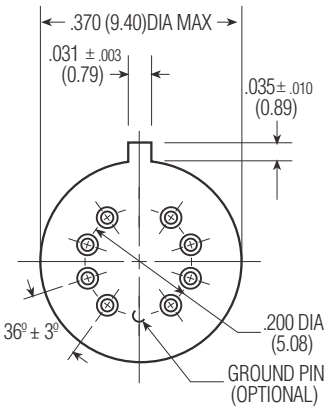
Coil Voltage —
5 to 30 Vdc (HM/HMD)
5 to 48 Vdc (HS/HSD)

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

Catalog 5-1773450-5
Revised 3-13

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Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in millimeters unless otherwise specified.

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For additional support numbers please visit www.te.com

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

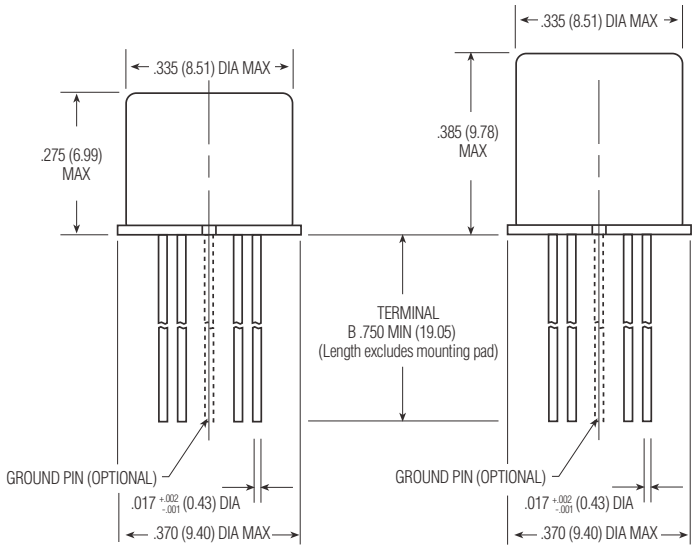
Shock Resistance —
30 G's, 6 ±1 ms

Semiconductor Characteristics

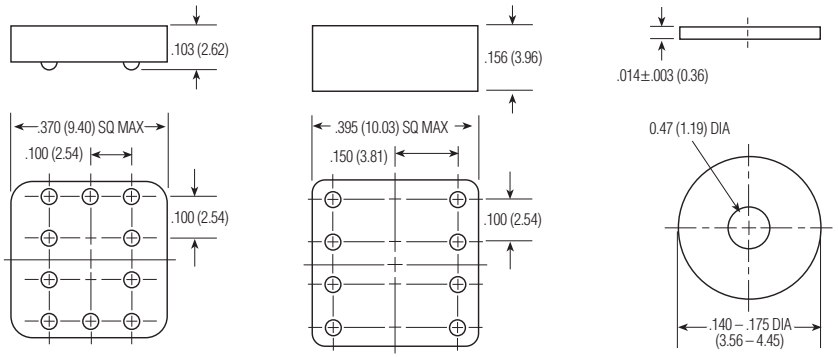
Diode —
100 Vdc peak inverse voltage (PIV)
1.0 Vdc max. transient voltage

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
	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



HM/HMD Enclosure | HS/HSD Enclosure



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

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Global Electronic Components Distributor

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TE Connectivity:

1-962915-1 936348-1 RH73H2A40MKTN 175977-2 3-1393225-0 3631B101LL CPF0402B37K4E1
1969656-1 2380312-2 2834055-1 SBCHE64R7K 1393431-1 CRGCQ2010J3K3 U5254-000005-030PA
1743455-2 2-292161-3 2377783-2 TE50BR39J 917696-1 SBCHE154R7K SMW73R0JT 141991-2
2005330-1 650075-000 1-794222-0 1903112-2 2310537-1 3430B2F51RTDF MPT100C18RF ROX05SJ18R