

- Hermetically sealed
- High shock & vibration ratings
- Surface mount leads
- Excellent RF switching
- Hermetically sealed High shock & vibration
- ratings
- Surface mount leads

Suppression diode

Excellent RF switching

Suppressed/Protected

Product Facts

- Suppression & protection diodes
- Hermetically sealed
- High shock & vibration ratings
- Surface mount leads
- Excellent RF switching

Electrical Characteristics

Contact Arrangement — 2 Form C (DPDT)

Contact Material -

Stationary Gold/platinum/palladium/silver (gold plated) Moveable -Gold/platinum/palladium/silver (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 48 Vdc **Coil Power** — 565 mW max. @ 25°C Duty Cycle — Continuous

Pick-up Voltage — Approximately 50% of nominal coil voltage

Pick-up Sensitivity -130 mW max. @ 25°C

Contact Ratings

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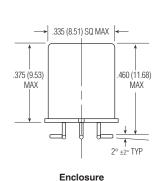
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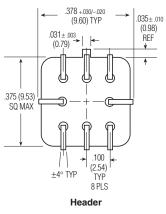
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Contact Load	Туре	Operations Min.	
1.0 A @ 28 Vdc	Resistive	100,000	
250 mA @ 115 Vac, 60 Hz & 400 Hz	Resistive (case not grounded)	100,000	
100 mA @ 115 Vac, 60 Hz & 400 Hz	Resistive	100,000	
0.2 A @ 28 Vdc	Inductive (0.32 Henry)	100,000	
0.1 A @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







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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.

USA: +1 800 522 6752 Asia Pacific: +86 0 400 820 6015 UK: +44 800 267 666 For additional support numbers please visit www.te.com



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

SMGS, SMGSD, SMGSDD

(Continued)

Operating Characteristics

Timing — Operate Time — 4.0 ms max. Release Time — SMGS — 2.0 ms max. SMGSD/SMGSDD — 7.5 ms max. (suppression diode, protection/ suppression diodes)

Contact Bounce — 1.5 ms max.

Dielectric Withstanding Voltage — Between Open Contacts — 500 Vrms 60 Hz Between Adjacent Contacts — 500 Vrms 60 Hz Between Contacts & Coil — 500 Vrms 60 Hz

Insulation Resistance —

10,000 megohms min. @ 500 Vdc 1,000 megohms @ 500 Vdc (coil to case @ +125°C)

Environmental Characteristics

 Temperature Range
 -65°C to +125°C

 Weight
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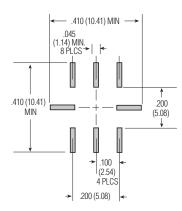
 0.09 oz. (2.55 gms)
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 Vibration Resistance
 ...

 30 G's, 10 to 3,000 Hz
 ...

 Shock Resistance
 ...

 75 G's, 6 ±1 ms max.
 ...



Recommended Solder Pad Layout

Coil Data

Nom. Coil Voltage (Vdc)	Coil Resistance in Ohms ±10% @ 25°C (Note)	Coil Circuit Current mA (Max.) (Note)	Coil Circuit Current mA (Min.) (Note)	Pickup Voltage Vdc (Max.) @ 25°C	Pickup Voltage Vdc (Max.) @ 125°C	Drop-Out Voltage Vdc (Min.) @ 25°C	Drop-Out Voltage Vdc (Min.) @ -65°C	Nom. Coil Power (mW) @ 25°C	Max. Coil Voltage	Coil Desig.
SMGS/SMG	SD									
5.0	100	n/a	n/a	2.6	3.5	0.23	0.12	250	7.5	5
6.0	200	n/a	n/a	3.4	4.5	0.28	0.18	180	10.0	6
9.0	400	n/a	n/a	4.85	6.8	0.55	0.35	203	15.0	9
12.0	800	n/a	n/a	7.0	9.0	0.64	0.41	180	20.0	12
18.0	1,600	n/a	n/a	9.8	13.5	0.92	0.59	203	30.0	18
26.5	3,200	n/a	n/a	14.0	18.0	1.4	0.89	219	40.0	26
36.0	6,500	n/a	n/a	20.0	27.0	1.8	1.25	199	57.0	36
48.0	11,000	n/a	n/a	25.8	36.0	2.4	1.60	209	75.0	48
SMGSDD										
5.0	64	78.1	56.8	2.9	3.7	0.8	0.7	391	7.5	5
6.0	125	48.9	36.3	4.0	4.8	0.9	0.8	288	10.0	6
9.0	400	23.6	18.1	6.1	8.0	1.1	0.9	203	15.0	9
12.0	800	16.0	12.5	7.8	11.0	1.3	1.0	180	20.0	12
18.0	1,600	12.2	9.6	11.3	14.5	1.5	1.1	203	30.0	18
26.5	3,200	9.0	7.2	15.2	19.0	1.7	1.3	219	40.0	26
36.0	6,500	6.1	4.9	21.7	27.2	2.3	1.7	199	57.0	36
48.0	11,000	4.8	3.9	27.8	34.8	2.8	2.0	209	75.0	48

Note: Coil resistance not directly measurable. Coil current should be within limits shown when tested at nominal voltage at 25°C for 5 seconds max.

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:TypeDiodeCoilsSMGSD-26

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USA: +1 800 522 6752 Asia Pacific: +86 0 400 820 6015 UK: +44 800 267 666 100 Vdc peak inverse voltage (PIV) 1.0 Vdc max. transient voltage

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