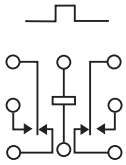
Double Pole, Electrically Held, 1 Amp and Less (Continued)

SHC, SHCD, SHCS, SHCSD



SHC, SHCS

Standard / Sensitive
.100 Grid Surface Mount
Commercial Relay



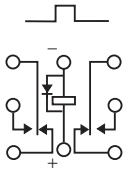
Terminal View

Product Facts

- **Hermetically sealed**
- **Excellent RF switching**

SHCD, SHCSD

Standard / Sensitive
.100 Grid Surface Mount
Diode Suppressed
Commercial Relay



Terminal View

Product Facts

- **Suppression Diode**
- **Hermetically sealed**
- **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 (SHC/SHCD)
5 to 48 Vdc (SHCS/SHCSD)

Coil Power —
SHC/SHCD — 660 mW max. @ 25°C
SHCS/SHCSD — 565 mW max. @ 25°C

Duty Cycle — Continuous

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

Pick-up Sensitivity —
SHC/SHCD — 180 mW max. @ 25°C
SHCS/SHCSD — 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 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.

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)

SHC, SHCD, SHCS, SHCSD
(Continued)

Operating Characteristics

Timing —
Operate Time —
SHC/SHCD — 4.0 ms max.
SHCS/SHCSD — 6.0 ms max.
Release Time —
SHC — 3.0 ms max.
SHCS — 3.0 ms max.
SHCD — 6.0 ms max.
(suppression diode)
SHCSD — 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 —
SHC/SHCD —
0.09 oz. (2.55 gms)
SHCS/SHCSD —
0.15 oz. (4.30 gms)

Vibration Resistance —
10 G's, 10 to 500 Hz

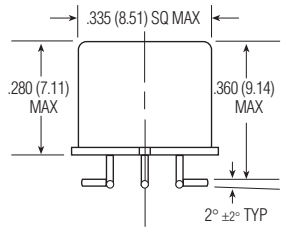
Shock Resistance —
30 G's, 6 ±1 ms

Semiconductor Characteristics

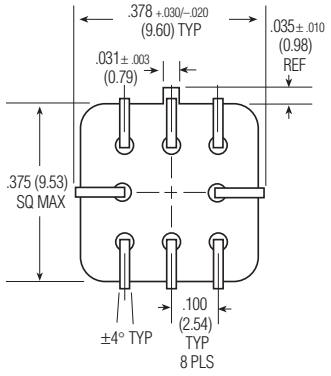
Diode —
100 Vdc peak inverse voltage (PIV)
1.0 Vdc max. transient voltage

Standard Coil Data

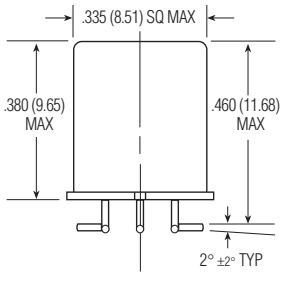
	Nom. Coil Voltage (Vdc)	Coil Resistance in Ohms ±20% @ 25°C	Pickup Voltage Vdc (Max.) @ 25°C	Nom. Coil Power (mW) @ 25°C	Max. Coil Voltage	Coil Desig.
SHC/SHCD	5.0	64	3.8	391	5.8	5
	6.0	98	4.9	367	8.0	6
	9.0	220	7.0	368	12.0	9
	12.0	400	9.0	360	16.0	12
	18.0	880	14.0	368	24.0	18
	26.5	1,600	18.0	439	32.0	26
SHCS/SHCSD	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



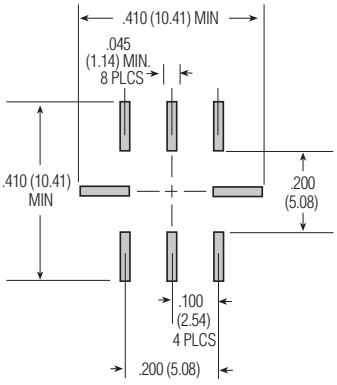
SHC/SHCD Enclosure



SHC/SHCD/SHCS/SHCSD Header



SHCS/SHCSD Enclosure



Recommended Solder Pad Layout

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**	**Coils**
	SHC	D	-26

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