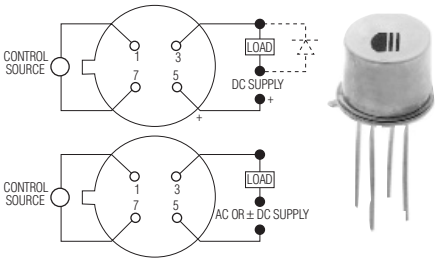
DC SOLID STATE RELAYS

TS SERIES

50 TO 250 mA

MEETS MIL-R-28750/5,6, & 7



TERMINAL VIEW

FEATURES

- Hermetically sealed TO-5 package
- Transformer coupled
- High speed switching
- TS5-1Y switches AC or DC

INPUT CHARACTERISTICS

INPUT VOLTAGE RANGE
4.0 – 7.0 Vdc

MAXIMUM TURN-ON VOLTAGE
5.0 Vdc

MINIMUM TURN-OFF VOLTAGE
1.0 Vdc

I/O DIELECTRIC
1000 Vac pk-pk

OUTPUT CHARACTERISTICS

MAX. OUTPUT CURRENT (CONTINUOUS, 25°C)
50 mAac or mAdc (TS5-1Y)
250 mAdc (TS6-1Y)
100 mAdc (TS7-1Y)

MAX. OUTPUT VOLTAGE
40 Vac or Vdc (TS5-1Y)
40 Vdc (TS6-1Y)
250 Vdc (TS7-1Y)

MAX. ON-RESISTANCE
5 ohms (TS5-1Y)

TURN-ON TIME
10 µsec.

TURN-OFF TIME
15 µsec.

ENVIRONMENTAL CHARACTERISTICS

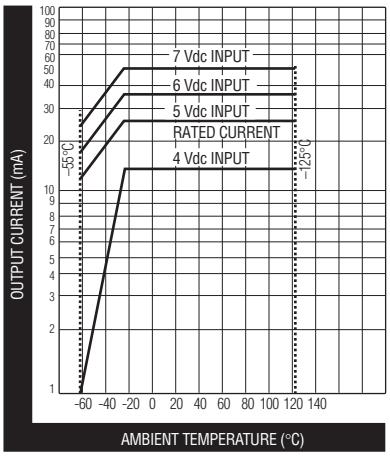
SHOCK
1500 G's, 0.5 ms.

VIBRATION
100 G's, 10 to 2000 Hz

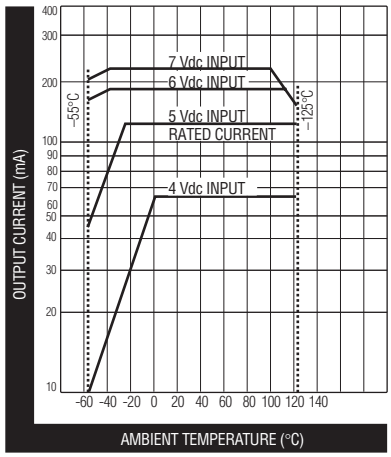
OPERATING AMBIENT TEMPERATURE
-55 to +125°C

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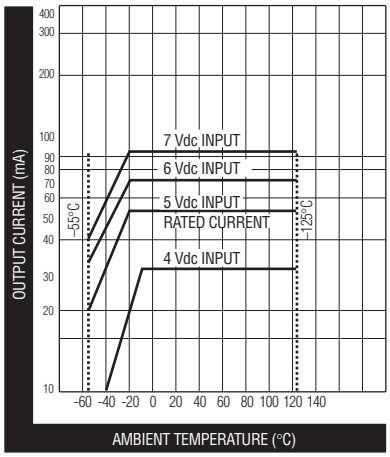
DC SOLID STATE RELAYS



TS5-1Y

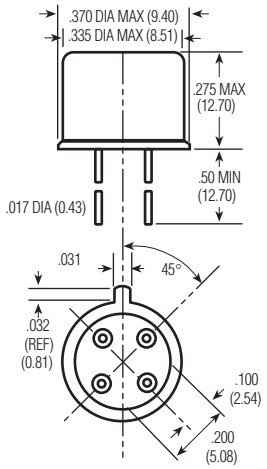


TS6-1Y



TS7-1Y

OUTPUT CURRENT VS. INPUT CONTROL VOLTAGE AND AMBIENT TEMPERATURE



TS5/TS6/TS7

NOTES: 1) Reversing polarity of input (or output except for TS5-1) may cause permanent damage. 2) Input must be a step function. Rise or fall time, as applicable, not to exceed 100 µsec. 3) Inductive loads must be diode suppressed. 4) For any control voltage, the maximum load current shown on graphs must not be exceeded. Attempting to draw currents in excess of those specified on graphs can cause permanent damage.

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