

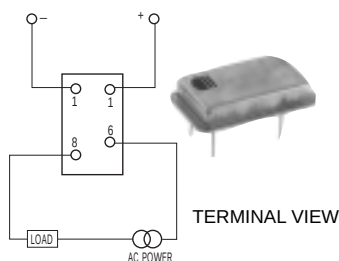


AC SOLID STATE RELAYS

JDS9-1Y

2 AMP

QUALIFIED TO MIL-R-28750 / 9



FEATURES

- Hermetically sealed
- Thick film hybrid construction
- Optically isolated
- Zero voltage turn-on

INPUT CHARACTERISTICS

INPUT VOLTAGE RANGE
3.8 – 32 Vdc

PICK-UP VOLTAGE
3.8 Vdc

DROPOUT VOLTAGE
1.5 Vdc

I/O DIELECTRIC
1500 Vrms

OUTPUT CHARACTERISTICS

MAX. OUTPUT CURRENT
(CONTINUOUS, 25°C)
2 Arms

MAX. OUTPUT VOLTAGE
250 Vrms

PEAK OVER VOLTAGE RATING
500 Vpk

FREQUENCY RANGE
40 – 440 Hz

ZERO SWITCH WINDOW
15 Vpk

THERMAL RESISTANCE
Junction to Ambient: 65°C/Watt
Junction to Case: 15°C/Watt

ENVIRONMENTAL CHARACTERISTICS

SHOCK
1500 G's, 0.5 ms.

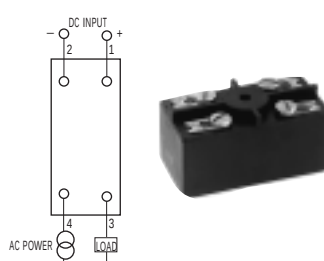
VIBRATION
30 G's, 10 to 3000 Hz

OPERATING AMBIENT TEMPERATURE
-55 to +110°C

PS12-1Y

10 AMP

MEETS DESC DWG. 86031 / 2



FEATURES

- Rugged encapsulated module
- Optically isolated
- Zero voltage turn-on

INPUT CHARACTERISTICS

INPUT VOLTAGE RANGE
3.8 – 32 Vdc

PICK-UP VOLTAGE
3.8 Vdc

DROPOUT VOLTAGE
1.0 Vdc

I/O DIELECTRIC
1500 Vrms

OUTPUT CHARACTERISTICS

MAX. OUTPUT CURRENT
(CONTINUOUS, 25°C)
10 Arms

MAX. OUTPUT VOLTAGE
250 Vrms

PEAK OVER VOLTAGE RATING
460 Vpk

FREQUENCY RANGE
40 – 440 Hz

ZERO SWITCH WINDOW
15 Vpk

THERMAL RESISTANCE
Junction to Ambient: 11.5°C/Watt
Junction to Case: 2°C/Watt

ENVIRONMENTAL CHARACTERISTICS

SHOCK
100 G's, 6 ms.

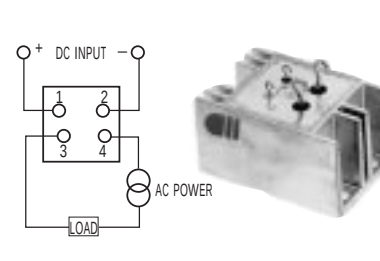
VIBRATION
30 G's, 78 to 2000 Hz

OPERATING AMBIENT TEMPERATURE
-55 to +95°C

JPS10 SERIES

25 AMP

MIL-R-28750 / 10 (QPL PENDING)



FEATURES

- Rugged encapsulated module
- Optically isolated
- Zero voltage turn-on

INPUT CHARACTERISTICS

INPUT VOLTAGE RANGE
3.8 – 32 Vdc

MAXIMUM TURN-ON VOLTAGE
3.8 Vdc

MINIMUM TURN-OFF VOLTAGE
1.0 Vdc

I/O DIELECTRIC
1500 Vrms

OUTPUT CHARACTERISTICS

MAX. OUTPUT CURRENT
(CONTINUOUS, 25°C)
25 Arms

MAX. OUTPUT VOLTAGE
250 Vrms

PEAK OVER VOLTAGE RATING
500 Vpk

FREQUENCY RANGE
40 – 440 Hz

ZERO SWITCH WINDOW
15 Vpk max. (JPS10-1Y)
40 Vpk max. (JPS10-2Y)

THERMAL RESISTANCE
Junction to Ambient: 6.8°C/Watt
Junction to Case: 1.2°C/Watt

ENVIRONMENTAL CHARACTERISTICS

SHOCK
1500 G's, 0.5 ms.

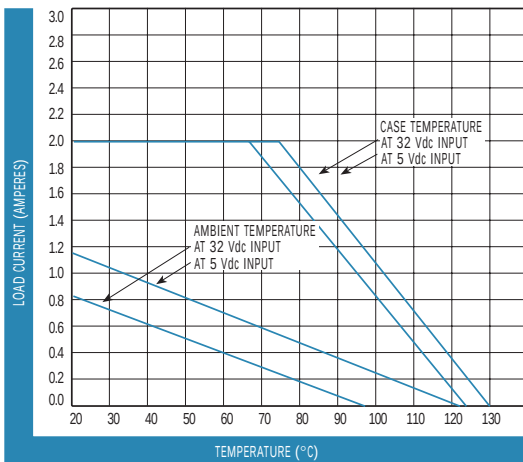
VIBRATION
30 G's, 78 to 2000 Hz

OPERATING AMBIENT TEMPERATURE
-55 to +110°C

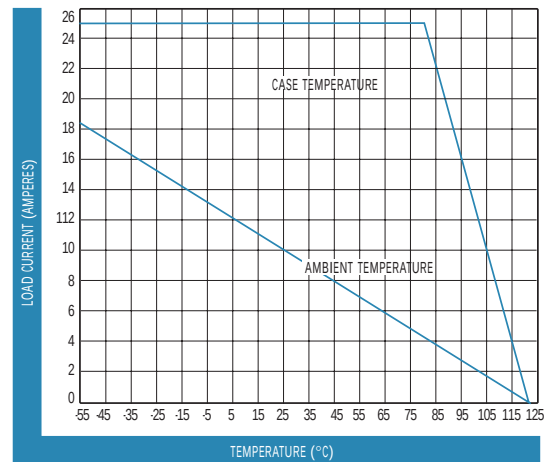
AC SOLID STATE RELAYS



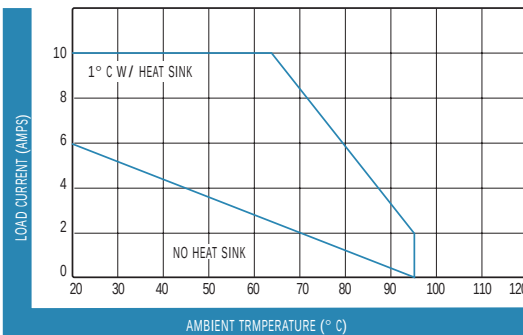
SOLID STATE RELAYS



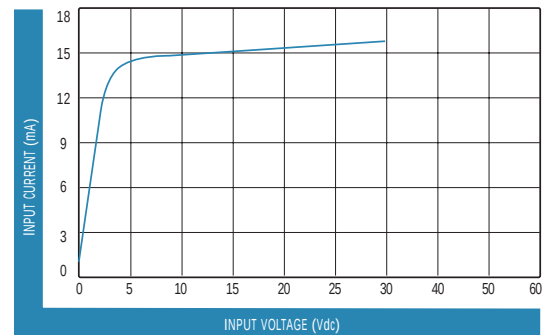
JDS9 MAX. OUTPUT CURRENT VS. TEMPERATURE



JPS10 MAX. OUTPUT CURRENT VS. TEMPERATURE



PS12 MAX. LOAD CURRENT VS. TEMPERATURE



JDS9/PS12/JPS10 TYPICAL INPUT CURRENT VS. INPUT VOLTAGE

