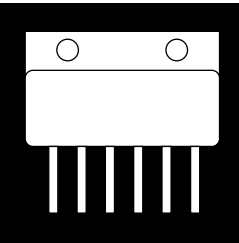


FULL WAVE, SINGLE PHASE RECTIFIER BRIDGE IN ISOLATED SIP PACKAGE



15 Amp, 200 To 600 Volts, 35 To 50 ns trr

FEATURES

- Very Low Forward Voltage
- Very Fast Switching Time
- Hermetic Metal Package, 6-Pin SIP
- Low Thermal Resistance
- Isolated Package
- High Surge
- Available Screened To MIL-S-19500, TX, TXV and S Levels

DESCRIPTION

This series of products in a hermetic package is specifically designed for use at power switching frequencies in excess of 100 kHz. The series combines two high efficiency devices into one package, simplifying installation, reducing heat sink hardware, and the need to obtain matched components. These devices are ideally suited for Military applications where small size and a hermetically sealed package is required.

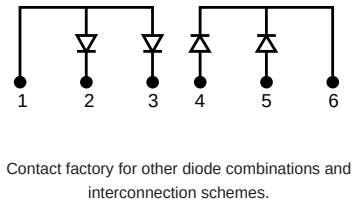
ABSOLUTE MAXIMUM RATINGS (Per Diode) @ 25°C

Unless Specified Otherwise

Peak Inverse Voltage	200 to 600 V
Maximum Average D.C. Output Current @ T _c = 100° C	15 A
Non-Repetitive Sinusoidal Surge Current 8.3 ms	150 A
Operating and Storage Temperature Range	- 55° C to + 150° C

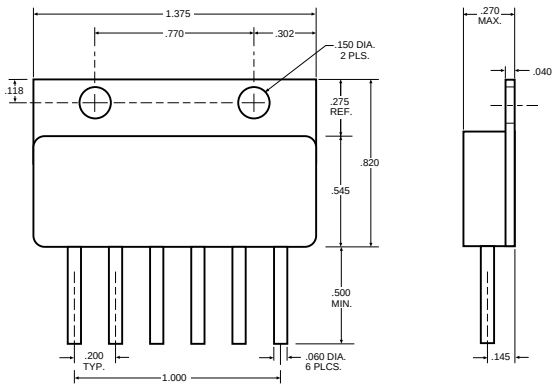
3.2

SCHEMATIC



Contact factory for other diode combinations and interconnection schemes.

MECHANICAL OUTLINE



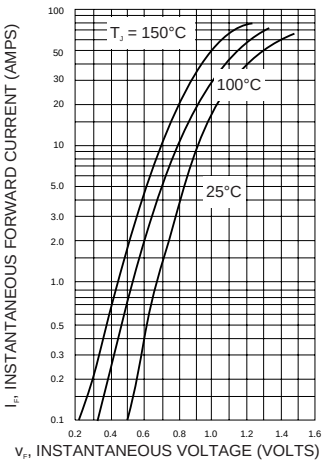
ELECTRICAL CHARACTERISTICS (Per Diode)

Type	PIV	Maximum Forward Voltage ⁽¹⁾ (Volts) @		Maximum Reverse Current @ PIV		Maximum Reverse Recovery Time ⁽²⁾	Maximum Thermal Resist. Rq _{bc}
		T _j = 25° C	T _j = 100° C	T _j = 25° C	T _j = 100° C		
OM9019SS	200	1.10 V @ 15 A	0.90 V @ 15 A	20 µA	1.0 mA	35 nsec	2.0
OM9020SS	400	1.35 V @ 15 A	1.15 V @ 15 A		2.0 mA	50 nsec	1.8
OM9021SS	600	1.60 V @ 15 A	1.40 V @ 15 A				

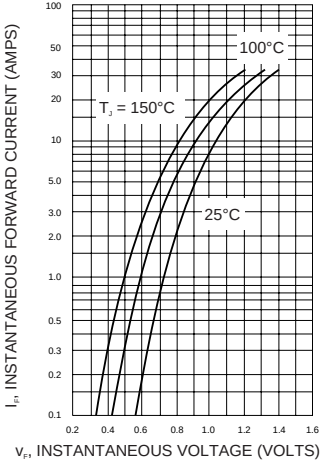
(1) Pulse Test: Pulse Width 300ms, Duty Cycle 2.0%.

(2) Measured in Circuit: I_r = 0.5 A, I_{rr} = 1.0 A, I_{rec} = 0.25 A

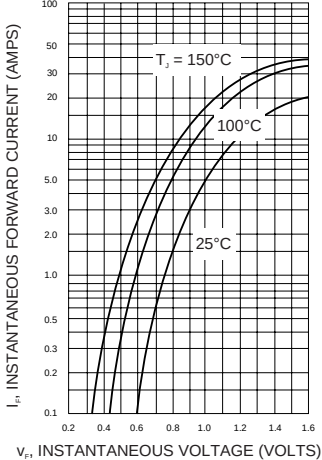
200V
TYPICAL FORWARD
VOLTAGE OM9019SS



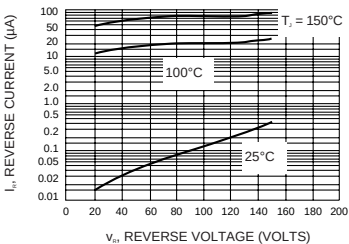
400V
TYPICAL FORWARD
VOLTAGE OM9020SS



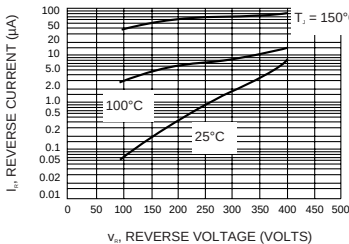
600V
TYPICAL FORWARD
VOLTAGE OM9021SS



TYPICAL REVERSE
CURRENT OM9019SS



TYPICAL REVERSE
CURRENT OM9020SS



TYPICAL REVERSE
CURRENT OM9021SS

