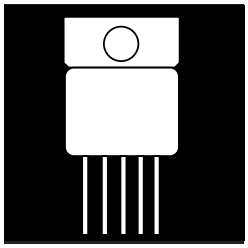
FULL WAVE, SINGLE PHASE RECTIFIER BRIDGE IN HERMETIC MO-078AA PACKAGE



10 Amp, 50 To 200 Volts, 35 ns trr

FEATURES

- Very Low Forward Voltage
- Very Fast Recovery Time
- Hermetic 5-Pin Metal Package, JEDEC MO-078AA Outline
- Low Thermal Resistance
- Isolated Package
- High Surge
- AvailableHi-Rel Screened

DESCRIPTION

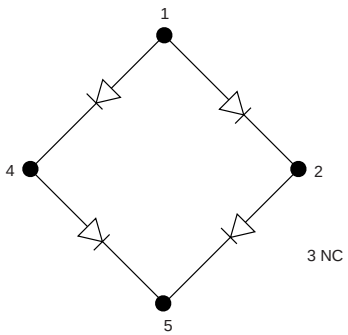
This series of products in a hermetic package is specifically designed for use at power switching frequencies in excess of 100 kHz. The series combines two high efficiency devices into one package, simplifying installation, reducing heat sink hardware, and the need to obtain matched components. These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

ABSOLUTE MAXIMUM RATINGS (Per Diode) @ 25°C

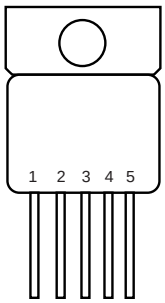
Peak Inverse Voltage . . . . . 50 to 200 V
Maximum Average D.C. Output Current @ T_C = 100° C. . . . . 10 A
Non-Repetitive Surge Current 8.3 ms . . . . . 150 A
Thermal Resistance:
Junction-to-Case. . . . . 1.8° C/W
Operating and Storage Temperature Range. . . . . - 55° C to + 150° C

3.2

SCHEMATIC



PIN CONNECTION

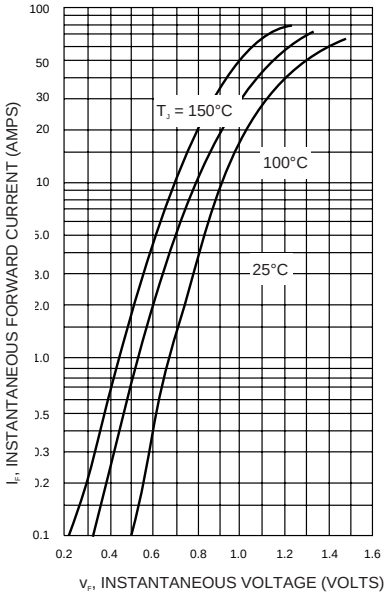


ELECTRICAL CHARACTERISTICS (Per Diode)

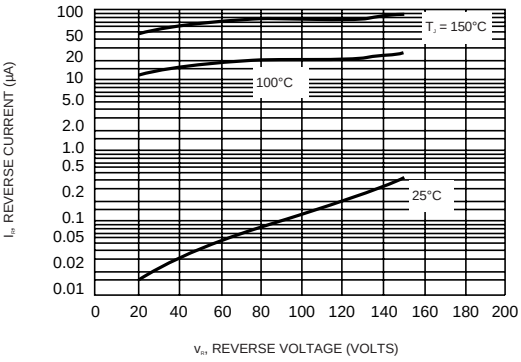
Type	PIV	Maximum Forward Voltage(1)		Maximum Reverse Current		Maximum Reverse Recovery Time(2)
		T_j = 25° C	T_j = 100° C	T_j = 25° C	T_j = 100° C	
OM9022SC	50	1.00 V @ 10 A	.95 V @ 10 A	20 µA	1.0 mA	35 nsec
OM9023SC	100					
OM9024SC	150					
OM9025SC	200					

(1) Pulse Test: Pulse Width 300ms, Duty Cycle 2.0%.
(2) Measured in Circuit: I_F = 0.5 A, I_R = 1.0 A, I_{REC} = 0.25 A

TYPICAL FORWARD VOLTAGE

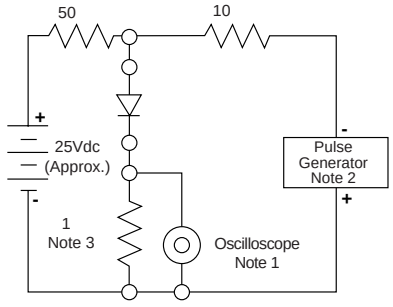


TYPICAL REVERSE CURRENT



3.2

REVERSE-RECOVERY CIRCUIT



NOTES:
1. Oscilloscope: Rise time 3ns: input impedance = 50
2. Pulse Generator: Rise time 8ns: source impedance 10
3. Current viewing resistor, non-inductive, coaxial recommended

MECHANICAL OUTLINE