

Features:

- Isolated Hermetic Power Package
- 3000V Isolation Terminal to Case
- Rugged Construction
- MIL-STD-883 Screening: SES790/883
- MIL-PRF-19500 JTX Screening: SES790/STX

1000V, 210 Amps, 5 μ sec 3 Phase Rectifier Bridge

Schematic Diagram

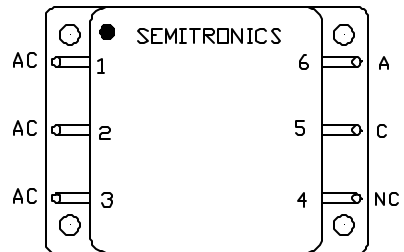
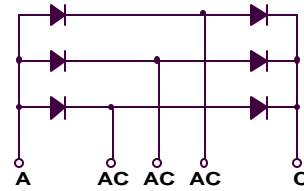


Table 1: Maximum Ratings Per Leg @ 25°C

Parameter	Max Rating
Peak Repetitive Reverse Voltage, V_{RPM}	1000 V
Peak Working Reverse Voltage, V_{RWM}	
DC Reverse Blocking Voltage, V_R	
Average Forward Current, I_o	70 A
Non-Repetitive Peak Surge Current, I_{FSM}	750 A
Operating and Storage Junction Temp. Range	-55 to +175 °C
Thermal Resistance, junction to base	0.25 °C/W

Table 2: Electrical Characteristics per leg @ 25°C

Parameter	Symbol	Conditions	Limits		Units
			Min	Max	
Reverse Current	I_{R1}	$V_R = 1000V$		10	μA
Reverse Current	I_{R2}	$V_R = 1000V, T_A = 100^\circ C$		5	mA
Forward Voltage	V_{F1}	$I_F = 15A$		1.0	V
Forward Voltage	V_{F2}	$I_F = 50A$		1.3	V
Forward Voltage	V_{F3}	$I_F = 5A, T_A = -55^\circ C$		1.1	V
Reverse Recovery Time	t_{rr}	$I_F = 1.0A, I_R = 0.1A$		5	μsec
Junction Capacitance	C_j	$V_R = 10Vdc, f = 1 MHz, V_{SIG} = 50mV(pp), max$		350	pf

Mechanical Dimensions

