180 Lafayette Road
North Hampton, NH 03862-2448
PH: 603-964-3165
FX: 603-964-3168
WWW.PDEELECTRONICS.COM

Full Wave Bridge Assembly

High Current, Standard Recovery, Single Phase
SCBAR Series

FEATURES

- Low Forward Voltage Drop
- Low Reverse Leakage Current
- Low Thermal Impedance
- Black Anodized Aluminnum Case
- Case Electrically Isolated

QUICK REFERENCE DATA

- V_R = 50 V - 1000 V
- I_F = 53 A
- trr = 2.0 uS
- Ir = 6.0 uA

ABSOLUTE MAXIMUM RATINGS

Device	Working Reverse Voltage V_{RWM}	Average Rectified Current $I_{F(AV)}$						1 Cycle Surge I_{FSM} T_p=8.3mS	
	Volts	Amps @ T_{CASE}			Amps @ T_{AMB}			Amps @ Tcase	
		@55°C	@100°C	@125°C	@25°C	@55°C	@100°C	@25°C	@100°C
SCBAR05	50	53	35	25	9.5	7.0	4.5	375	250
SCBAR1	100	53	35	25	9.5	7.0	4.5	375	250
SCBAR2	200	53	35	25	9.5	7.0	4.5	375	250
SCBAR4	400	53	35	25	9.5	7.0	4.5	375	250
SCBAR6	600	53	35	25	9.5	7.0	4.5	375	250
SCBAR8	800	53	35	25	9.5	7.0	4.5	375	250
SCBAR10	1000	53	35	25	9.5	7.0	4.5	375	250

ELECTRICAL CHARACTERISTICS

Device	Maximum Leakage Current Per Leg I_R @V_{RWM}		Maximum Forward Voltage Per Leg V_F @ IF		Maximum Reverse Recovery T_{RR*}
	T_C=25°C	T_C=100°C	T_C=25°C		T_A=25°C
	µA	µA	Volts	Amps	uS
SCBAR05	6.0	240	1.0	9.0	2.0
SCBAR1	6.0	240	1.0	9.0	2.0
SCBAR2	6.0	240	1.0	9.0	2.0
SCBAR4	6.0	240	1.0	9.0	2.0
SCBAR6	6.0	240	1.0	9.0	2.0
SCBAR8	6.0	240	1.0	9.0	2.0
SCBAR10	6.0	240	1.0	9.0	2.0

* Measured on discretes prior to assembly in reverse recovery circuit switching from 0.5A forward to 1.0A reverse current recovering to 0.25A reverse current.

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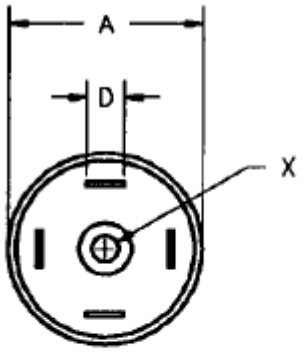
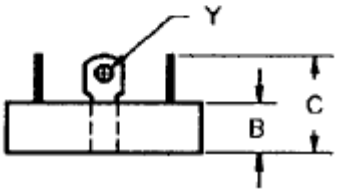
MECHANICAL



DIM	DIMENSIONS			
	MM		INCHES	
	MIN	MAX	MIN	MAX
A	–	51.6	–	2.03
B	–	13.5	–	0.53
C	–	26.2	–	1.03
D	8.6	10.2	0.34	0.40
X	5.6	7.1	0.22	0.28
Y	3.5	5.1	0.14	0.20



THERMAL CHARACTERISTICS

Operating and Storage Temperature.....-55°C to +150°C
Maximum Thermal Impedance (typical).....0.7 °C/W Junction to Case