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

High Voltage Rectifier Assembly

Fast Recovery
SCFS2000, SCFS4000, SCFS6000
SCFS8000, SCFS10000, SCFS12000

FEATURES

- Low Reverse Recovery Time
- Low Reverse Leakage Current
- High Thermal Shock Resistance
- Corona Free Construction
- Low Distributed Capacitance

QUICK REFERENCE DATA

- V_R= 2000-12000V
- T_{rr}= 150nS
- I_F = 1.5A
- I_R = 5µA

ABSOLUTE MAXIMUM RATINGS

Device	Working Reverse Voltage V_{RWM}	Average Rectified Current $I_{F(AV)}$ @T_A		1 Cycle Surge Current T_p=8.3mS I_{FSM} @T_A		Repetitive Surge Current @T_A	I^2T T_p=8.3mS @T_A	Case Length Max
	Volts	Amps		Amps		Amps	A^2S	Dim C
		55°C	100°C	25°C	100°C	25°C	25°C	Inches
SCFS2000	2000	1.5	1.0	150	75	10	93	1.53
SCFS4000	4000	1.5	1.0	150	75	10	93	2.53
SCFS6000	6000	1.5	1.0	150	75	10	93	3.53
SCFS8000	8000	1.5	1.0	150	75	10	93	4.53
SCFS10000	10000	1.5	1.0	150	75	10	93	5.53
SCFS12000	12000	1.5	1.0	150	75	10	93	6.53

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	nS
SCFS2000	5.0	25	5.4	3.0	150
SCFS4000	5.0	25	9.0	3.0	150
SCFS6000	5.0	25	12.6	3.0	150
SCFS8000	5.0	25	16.2	3.0	150
SCFS10000	5.0	25	19.8	3.0	150
SCFS12000	5.0	25	23.4	3.0	150

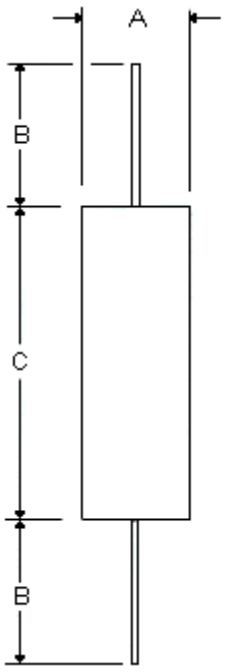
* Measured on discretes prior to assembly in reverse recovery circuit switching from 0.5A forward to 1.0A reverse current recovering to 0.25A reverse current.

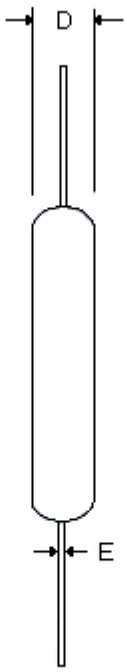
180 Lafayette Road
North Hampton, NH 03862-2448
PH: 603-964-3165
FX: 603-964-3168
WWW.PDEELECTRONICS.COM

High Voltage Rectifier Assembly

Fast Recovery
SCFS2000, SCFS4000, SCFS6000
SCFS8000, SCFS10000, SCFS12000

MECHANICAL CHARACTERISTICS





DIMENSIONS		
	INCHES	
	MIN	MAX
A	-	.71
B	2.00	-
C	SEE TABLE	
D	-	.39
E	.048	.054

THERMAL CHARACTERISTICS

Operating and Storage Temperature.....-55°C to +150°C