

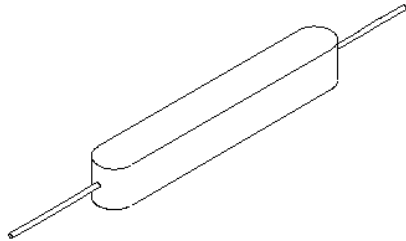


180 Lafayette Road  
 North Hampton, NH 03862-2448  
 PH: 603-964-3165  
 FX: 603-964-3168  
 WWW.PDEELECTRONICS.COM

**Rectifier Assembly**  
**Standard Recovery High Voltage**  
 SCHJ, SCH, SCHS Series REV A

- QUICK REFERENCE DATA**
- $V_R = 2500 - 45000V$
  - $I_F = 0.05-2.0A$
  - $I_R = 1.0\mu A$
  - $I_{FSM} = 25A-80A$

- FEATURES**
- High Voltage
  - High Density
  - Standard Recovery
  - Low Reverse Leakage Current
  - Low Forward Voltage Drop
  - High Thermal Shock Resistance
  - Corona Free Construction
  - Low Distributed Capacitance



**ABSOLUTE MAXIMUM RATINGS**

Device Type	Working Reverse Voltage $V_{RWM}$	Average Rectified Current $I_{F(AV)}$				Surge Current $I_{FSM}$ $t_p=8.3mS$ @25°C	$I^2t$ $t_p=8.3mS$ @25°C	Repetitive Surge Current @25°C $I_{FRM}$
		@55°C	@100°C	Forced air 600CFM @25°C	In still oil @55°C			
		Volts	Amps	Amps	Amps			
SCHJ15K	15000	0.05	0.03	0.1	0.1	25	2.6	2.5
SCHJ22.5K	22500	0.05	0.03	0.1	0.1	25	2.6	2.5
SCHJ30K	30000	0.05	0.03	0.1	0.1	25	2.6	2.5
SCHJ37.5K	37500	0.05	0.03	0.1	0.1	25	2.6	2.5
SCHJ45K	45000	0.05	0.03	0.1	0.1	25	2.6	2.5
SCH5000	5000	0.50	0.33	1.0	1.0	50	12	10
SCH7500	7500	0.50	0.33	1.0	1.0	50	12	10
SCH10000	10000	0.50	0.33	1.0	1.0	50	12	10
SCH12500	12500	0.50	0.33	1.0	1.0	50	12	10
SCH15000	15000	0.50	0.33	1.0	1.0	50	12	10
SCH20000	20000	0.50	0.33	1.0	1.0	50	12	10
SCH25000	25000	0.50	0.33	1.0	1.0	50	12	10
SCHS2500	2500	2.00	1.20	2.0	4.0	80	26	31
SCHS5000	5000	2.00	1.20	2.0	4.0	80	26	31
SCHS7500	7500	2.00	1.20	2.0	4.0	80	26	31
SCHS10000	10000	2.00	1.20	2.0	4.0	80	26	31
SCHS12500	12500	2.00	1.20	2.0	4.0	80	26	31
SCHS15000	15000	2.00	1.20	2.0	4.0	80	26	31

Specifications subject to change without notice to ensure a better product  
**PD&E Electronics** 180 Lafayette Rd. North Hampton, NH 03862  
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**ELECTRICAL CHARACTERISTICS**

Device Type	Maximum Reverse Leakage Current $I_R @ V_{RWM}$		Maximum Forward Voltages $V_F @ I_F$ @25°C		Maximum Reverse Recovery Time* @25°C	Case Length dim. C MAX	Case Outline
	@25°C	@100°C	Volts	Amps	µS	Inches	
	µA	µA					
SCHJ15K	1.00	20.0	20.0	0.1	2.5	1.52	PD18
SCHJ22.5K	1.00	20.0	30.0	0.1	2.5	2.02	PD18
SCHJ30K	1.00	20.0	40.0	0.1	2.5	2.52	PD18
SCHJ37.5K	1.00	20.0	50.0	0.1	2.5	3.02	PD18
SCHJ45K	1.00	20.0	60.0	0.1	2.5	3.52	PD18
SCH5000	1.00	20.0	5.0	1.0	5.0	1.145	PD21
SCH7500	1.00	20.0	8.0	1.0	5.0	1.645	PD21
SCH10000	1.00	20.0	10.0	1.0	5.0	2.020	PD21
SCH12500	1.00	20.0	13.0	1.0	5.0	2.395	PD21
SCH15000	1.00	20.0	15.0	1.0	5.0	2.770	PD21
SCH20000	1.00	20.0	20.0	1.0	5.0	3.520	PD21
SCH25000	1.00	20.0	25.0	1.0	5.0	4.270	PD21
SCHS2500	1.00	10.0	3.45	3.0	2.5	1.53	PD19
SCHS5000	1.00	10.0	5.75	3.0	2.5	2.53	PD19
SCHS7500	1.00	10.0	9.20	3.0	2.5	3.53	PD19
SCHS10000	1.00	10.0	11.50	3.0	2.5	4.53	PD19
SCHS12500	1.00	10.0	14.95	3.0	2.5	5.53	PD19
SCHS15000	1.00	10.0	18.40	3.0	2.5	6.53	PD19

\*Measured in discrete devices prior to assembly.  $I_F=0.5A$ ,  $I_R=1A$ ,  $I_{RR}=0.25A$

**TEMPERATURE RATINGS**

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



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**MECHANICAL CHARACTERISTICS**

