

T-23-05

**High Voltage Rectifiers**

TCE Type	Material	SELENIUM						SILICON						Figure No.	
		MAX. RATINGS		OPERATING CHARACTERISTICS				MAXIMUM RATINGS							
		Reverse DC Voltage	Pulse Voltage	Reverse DC Voltage	Pulse Voltage	Forward Current Average	Reverse Current	Repetitive Peak DC Voltage	Forward Current Average	Peak Forward Surge Current	Reverse Current	Forward Voltage Drop	Reverse Recovery Time		
V <sub>RM</sub> kV	V <sub>PM</sub> kV	V <sub>R</sub> kV	V <sub>P</sub> kV	I <sub>F</sub> mA	I <sub>R</sub> μA	V <sub>RRM</sub> kV	I <sub>o</sub> mA	I <sub>FSM</sub> mA	I <sub>RM</sub> μA	V <sub>F</sub> V	t <sub>rr</sub> ns				
SK3066	Se	8	9	6.5	7.8	2	30								R-009
SK3067	Se	12.4	14.5	11	13.2	1.5	100								R-010
SK3068	Se	14.4	17.3	13	15.6	1.5	100								R-010
SK3108	Se	21.4	25.4	20	24	0.3	20								R-024
SK3443	Si							45	2.2	200	1	120	175		R-031
SK7330	Si							28	0.6	4.6	1	120 Max	175		R-068
SK7331	Si							2	70		1	10	250		R-067
SK7333	Si							35	2.2	100	1.0	60 Max	300		R-085
SK9086	Si							8	5	100		20			R-054

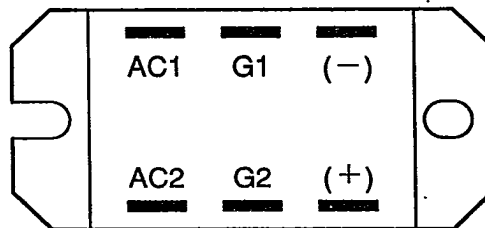
**Unidirectional Transient Suppressor Diodes**

TCE Type	MAXIMUM RATINGS			OPERATING CHARACTERISTICS										Clamping Time	Figure No.
	Device Power Dissipate.	Peak Pulse Power *	Peak Non-Repet. Forward Surge Current	Reverse Standoff		Reverse Breakdown		Clamping Voltage Characteristic Curve*							
				Voltage	Current	Voltage	Current	Point 1		Point 2		Point 3			
								Clamping Voltage	Peak Pulse Current	Clamping Voltage	Peak Pulse Current	Clamping Voltage	Peak Pulse Current		
P <sub>o</sub> W	P <sub>p</sub> kW	I <sub>FSM</sub> A	V <sub>RM</sub> V	I <sub>RM</sub> μA	V <sub>BR</sub> V	I <sub>R</sub> mA	V <sub>CL</sub> V	I <sub>PP</sub> A	V <sub>CL</sub> V	I <sub>PP</sub> A	V <sub>CL</sub> V	I <sub>PP</sub> A	t <sub>clamp</sub> pS		
SK9812	1	1.5	250	5.0	300	6.0	1	7.6	30	8.0	60	8.5	120	1	

\* 1 ms exponential pulse

**Industrial Power Modules**

TCE Type	Quantity/Pkg		OPERATING CHARACTERISTICS								Device Package Temp. Gradient		Figure No.	Application
			Total Package			Per Diode		Per SCR						
	Repetitive Peak Revers Off-State Voltage	On-State RMS Current	On-State Average Current	On-State Average Current	Peak Forward Surge Current	On-State Average Current	Peak Non-Repet. Surge Current	Per Junct.	Total Pkg.					
	V <sub>RRM</sub> V	I <sub>RMS</sub> A	I <sub>o</sub> A	I <sub>F</sub> A	I <sub>FSM</sub> A	I <sub>T</sub> A	I <sub>TSM</sub> A	R <sub>thJC</sub> °C/W	R <sub>thJC</sub> °C/W					
SK9811	2	2	1200	25	12.5	315	12.5	315	2.24			M-001		



D-00297E

**SK9811 Pin Connections**