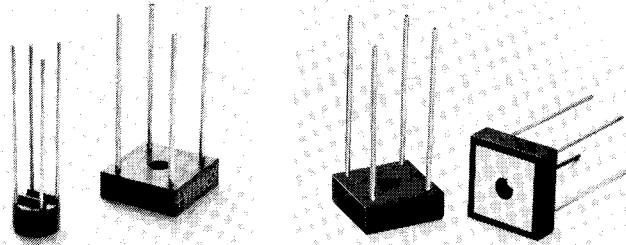


- **Controlled Avalanche series has 250V, 450V, 650V and 850V minimum avalanche voltages (V_{BR})**
- **Non-controlled Avalanche series with 50V, 100V, 200V, 400V, 600V and 800V, and 1000 (V_{BRM})**
- **Fast recovery series with 200 nanosec. max. reverse recovery (t_r).**

1 AMP

2 & 6 AMP

10 AMP


MAXIMUM RATINGS @ $T_A = 25^\circ\text{C}$ (UNLESS OTHERWISE SPECIFIED)

Part Number	Peak Rep. Reverse Voltage (Volts)	RMS Reverse Voltage (Volts)	Power Dissipation (100 μs sq. wave) (Watts)	Peak Surge Current (1/2 cycle @ 60 Hz, Non-Rep.) (Amps)	DC Forward Current (Amps)	Junction Operating Temp. Range ($^\circ\text{C}$)
1 AMP CONTROLLED AVALANCHE						
VE27	200	140	200	25 @ $T_A = 65^\circ\text{C}$	1 @ $T_A = 65^\circ\text{C}$	-50 to +150
VE47	400	280	200	25 @ $T_A = 65^\circ\text{C}$	1 @ $T_A = 65^\circ\text{C}$	-50 to +150
VE67	600	420	200	25 @ $T_A = 65^\circ\text{C}$	1 @ $T_A = 65^\circ\text{C}$	-50 to +150
VE87	800	560	200	25 @ $T_A = 65^\circ\text{C}$	1 @ $T_A = 65^\circ\text{C}$	-50 to +150
1 AMP NON-CONTROLLED AVALANCHE						
W110	25	17	NA	25 @ $T_A = 65^\circ\text{C}$	1 @ $T_A = 65^\circ\text{C}$	-50 to +150
VE08	50	35	NA	25 @ $T_A = 65^\circ\text{C}$	1 @ $T_A = 65^\circ\text{C}$	-50 to +150
VE18	100	70	NA	25 @ $T_A = 65^\circ\text{C}$	1 @ $T_A = 65^\circ\text{C}$	-50 to +150
VE28	200	140	NA	25 @ $T_A = 65^\circ\text{C}$	1 @ $T_A = 65^\circ\text{C}$	-50 to +150
VE48	400	280	NA	25 @ $T_A = 65^\circ\text{C}$	1 @ $T_A = 65^\circ\text{C}$	-50 to +150
VE68	600	420	NA	25 @ $T_A = 65^\circ\text{C}$	1 @ $T_A = 65^\circ\text{C}$	-50 to +150
VE88	800	560	NA	25 @ $T_A = 65^\circ\text{C}$	1 @ $T_A = 65^\circ\text{C}$	-50 to +150
VE108	1000	700	NA	25 @ $T_A = 65^\circ\text{C}$	1 @ $T_A = 65^\circ\text{C}$	-50 to +150
1 AMP FAST RECOVERY						
VE08X	50	35	NA	17 @ $T_A = 40^\circ\text{C}$	1 @ $T_A = 40^\circ\text{C}$	-50 to +125
VE18X	100	70	NA	17 @ $T_A = 40^\circ\text{C}$	1 @ $T_A = 40^\circ\text{C}$	-50 to +125
VE28X	200	140	NA	17 @ $T_A = 40^\circ\text{C}$	1 @ $T_A = 40^\circ\text{C}$	-50 to +125
VE48X	400	280	NA	17 @ $T_A = 40^\circ\text{C}$	1 @ $T_A = 40^\circ\text{C}$	-50 to +125
VE68X	600	560	NA	17 @ $T_A = 40^\circ\text{C}$	1 @ $T_A = 40^\circ\text{C}$	-50 to +125
2 AMP CONTROLLED AVALANCHE						
VS247 *	200	140	300	50 @ $T_A = 60^\circ\text{C}$	2 @ $T_A = 60^\circ\text{C}$	-50 to +150
VS447 *	400	280	300	50 @ $T_A = 60^\circ\text{C}$	2 @ $T_A = 60^\circ\text{C}$	-50 to +150
VS647 *	600	420	300	50 @ $T_A = 60^\circ\text{C}$	2 @ $T_A = 60^\circ\text{C}$	-50 to +150
VS847 *	800	560	300	50 @ $T_A = 60^\circ\text{C}$	2 @ $T_A = 60^\circ\text{C}$	-50 to +150
2 AMP NON-CONTROLLED AVALANCHE						
VS048 *	50	35	NA	50 @ $T_A = 60^\circ\text{C}$	2 @ $T_A = 60^\circ\text{C}$	-50 to +150
VS148 *	100	70	NA	50 @ $T_A = 60^\circ\text{C}$	2 @ $T_A = 60^\circ\text{C}$	-50 to +150
VS248 *	200	140	NA	50 @ $T_A = 60^\circ\text{C}$	2 @ $T_A = 60^\circ\text{C}$	-50 to +150
VS448 *	400	280	NA	50 @ $T_A = 60^\circ\text{C}$	2 @ $T_A = 60^\circ\text{C}$	-50 to +150
VS648 *	600	420	NA	50 @ $T_A = 60^\circ\text{C}$	2 @ $T_A = 60^\circ\text{C}$	-50 to +150
VS848 *	800	560	NA	50 @ $T_A = 60^\circ\text{C}$	2 @ $T_A = 60^\circ\text{C}$	-50 to +150
VS1048 *	1000	700	NA	50 @ $T_A = 60^\circ\text{C}$	2 @ $T_A = 60^\circ\text{C}$	-50 to +150
2 AMP FAST RECOVERY						
VS048X *	50	35	NA	35 @ $T_A = 45^\circ\text{C}$	2 @ $T_A = 45^\circ\text{C}$	-50 to +135
VS148X *	100	70	NA	35 @ $T_A = 45^\circ\text{C}$	2 @ $T_A = 45^\circ\text{C}$	-50 to +135
VS248X *	200	140	NA	35 @ $T_A = 45^\circ\text{C}$	2 @ $T_A = 45^\circ\text{C}$	-50 to +135
VS448X *	400	280	NA	35 @ $T_A = 45^\circ\text{C}$	2 @ $T_A = 45^\circ\text{C}$	-50 to +135
VS648X *	600	420	NA	35 @ $T_A = 45^\circ\text{C}$	2 @ $T_A = 45^\circ\text{C}$	-50 to +135
6 AMP CONTROLLED AVALANCHE (See Note 1)						
VH247 *	200	140	400	100 @ $T_{HS} = 80^\circ\text{C}$	6 @ $T_{HS} = 80^\circ\text{C}$	-50 to +150
VH447 *	400	280	400	100 @ $T_{HS} = 80^\circ\text{C}$	6 @ $T_{HS} = 80^\circ\text{C}$	-50 to +150
VH647 *	600	420	400	100 @ $T_{HS} = 80^\circ\text{C}$	6 @ $T_{HS} = 80^\circ\text{C}$	-50 to +150
VH847 *	800	560	400	100 @ $T_{HS} = 80^\circ\text{C}$	6 @ $T_{HS} = 80^\circ\text{C}$	-50 to +150
VH1048 *	1000	700	400	100 @ $T_{HS} = 80^\circ\text{C}$	6 @ $T_{HS} = 80^\circ\text{C}$	-50 to +150
6 AMP NON-CONTROLLED AVALANCHE (See Note 1)						
VH048 *	50	35	NA	100 @ $T_{HS} = 80^\circ\text{C}$	6 @ $T_{HS} = 80^\circ\text{C}$	-50 to +150
VH148 *	100	70	NA	100 @ $T_{HS} = 80^\circ\text{C}$	6 @ $T_{HS} = 80^\circ\text{C}$	-50 to +150
VH248 *	200	140	NA	100 @ $T_{HS} = 80^\circ\text{C}$	6 @ $T_{HS} = 80^\circ\text{C}$	-50 to +150
VH448 *	400	280	NA	100 @ $T_{HS} = 80^\circ\text{C}$	6 @ $T_{HS} = 80^\circ\text{C}$	-50 to +150
VH648 *	600	420	NA	100 @ $T_{HS} = 80^\circ\text{C}$	6 @ $T_{HS} = 80^\circ\text{C}$	-50 to +150
VH848 *	800	560	NA	100 @ $T_{HS} = 80^\circ\text{C}$	6 @ $T_{HS} = 80^\circ\text{C}$	-50 to +150
5 AMP FAST RECOVERY (See Note 1)						
VH048X *	50	35	NA	65 @ $T_{HS} = 60^\circ\text{C}$	5 @ $T_{HS} = 60^\circ\text{C}$	-50 to +135
VH148X *	100	70	NA	65 @ $T_{HS} = 60^\circ\text{C}$	5 @ $T_{HS} = 60^\circ\text{C}$	-50 to +135
VH248X *	200	140	NA	65 @ $T_{HS} = 60^\circ\text{C}$	5 @ $T_{HS} = 60^\circ\text{C}$	-50 to +135
VH448X *	400	280	NA	65 @ $T_{HS} = 60^\circ\text{C}$	5 @ $T_{HS} = 60^\circ\text{C}$	-50 to +135
VH648X *	600	560	NA	65 @ $T_{HS} = 60^\circ\text{C}$	5 @ $T_{HS} = 60^\circ\text{C}$	-50 to +135
10 AMP CONTROLLED AVALANCHE						
VJ247	200	140	400	100 @ $T_C = 60^\circ\text{C}$	10 @ $T_C = 60^\circ\text{C}$	-50 to +150
VJ447	400	280	400	100 @ $T_C = 60^\circ\text{C}$	10 @ $T_C = 60^\circ\text{C}$	-50 to +150
VJ647	600	420	400	100 @ $T_C = 60^\circ\text{C}$	10 @ $T_C = 60^\circ\text{C}$	-50 to +150
VJ847	800	560	400	100 @ $T_C = 60^\circ\text{C}$	10 @ $T_C = 60^\circ\text{C}$	-50 to +150
10 AMP NON-CONTROLLED AVALANCHE						
VJ048	50	35	NA	100 @ $T_C = 60^\circ\text{C}$	10 @ $T_C = 60^\circ\text{C}$	-50 to +150
VJ148	100	70	NA	100 @ $T_C = 60^\circ\text{C}$	10 @ $T_C = 60^\circ\text{C}$	-50 to +150
VJ248	200	140	NA	100 @ $T_C = 60^\circ\text{C}$	10 @ $T_C = 60^\circ\text{C}$	-50 to +150
VJ448	400	280	NA	100 @ $T_C = 60^\circ\text{C}$	10 @ $T_C = 60^\circ\text{C}$	-50 to +150
VJ648	600	420	NA	100 @ $T_C = 60^\circ\text{C}$	10 @ $T_C = 60^\circ\text{C}$	-50 to +150
VJ848	800	560	NA	100 @ $T_C = 60^\circ\text{C}$	10 @ $T_C = 60^\circ\text{C}$	-50 to +150
VJ1048	1000	700	NA	100 @ $T_C = 60^\circ\text{C}$	10 @ $T_C = 60^\circ\text{C}$	-50 to +150
10 AMP FAST RECOVERY						
VJ048X	50	35	NA	75 @ $T_C = 60^\circ\text{C}$	10 @ $T_C = 60^\circ\text{C}$	-50 to +150
VJ148X	100	70	NA	75 @ $T_C = 60^\circ\text{C}$	10 @ $T_C = 60^\circ\text{C}$	-50 to +150
VJ248X	200	140	NA	75 @ $T_C = 60^\circ\text{C}$	10 @ $T_C = 60^\circ\text{C}$	-50 to +150
VJ448X	400	280	NA	75 @ $T_C = 60^\circ\text{C}$	10 @ $T_C = 60^\circ\text{C}$	-50 to +150
VJ648X	600	420	NA	75 @ $T_C = 60^\circ\text{C}$	10 @ $T_C = 60^\circ\text{C}$	-50 to +150

 NOTE 1: Mount to heat sink as shown on next page for full rated I_o .

Package outline

DIM.	INCHES		MILLIMETERS	
	MIN.	MAX.	MIN.	MAX.
A	0.405	0.445	10.	11.3
B	0.53	0.59	13.49	15.08
C	0.142	0.158	3.6	4.0
D	0.047	0.127	1.2	3.2
E	0.75		19.1	
F	0.048	0.052	1.2	1.3
G	0.23	0.27	5.8	6.9

