

# High Voltage Rectifier Stacks

Original Release: 01-15-08  
 Revised Date: 08-21-12

**0.5A - 2.2A • 70ns - 150ns • Axial Leaded**

## ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS

Part Number	Working Reverse Voltage (V <sub>rw</sub> ) Volts	Average Rectified Current (in oil) (I <sub>o</sub> )		Reverse Current @ V <sub>rw</sub> (I <sub>r</sub> )		Forward Voltage (V <sub>f</sub> )		1 Cycle Surge Current (I <sub>fsm</sub> ) tp=8.3ms	Repetitive Surge Current (I <sub>frm</sub> )	Reverse Recovery Time (1) (T <sub>rr</sub> ) ns	Case Length (L) in.
		55°C	100°C	25°C	100°C	25°C					
		Amps	Amps	µA	µA	Volts	Amps				
SP25UF SP50UF	2500 5000	0.5 0.5	0.33 0.33	1.0 1.0	25 25	6.0 11.0	1.5 1.0	60 40	10 8	70 70	1.125 2.000
SP75UF SP100UF	7500 10000	0.5 0.5	0.33 0.33	1.0 1.0	25 25	16.0 16.0	1.0 1.0	40 40	8 8	70 70	2.750 3.500
SP125UF SP150UF	12500 15000	0.5 0.5	0.33 0.33	1.0 1.0	25 25	24.0 24.0	1.0 1.0	40 40	8 8	70 70	4.250 4.250
SP200UF SP250UF	20000 25000	0.5 0.5	0.33 0.33	1.0 1.0	25 25	32.0 40.0	1.0 1.0	40 40	8 8	70 70	4.250 4.250
SP25F SP50F	2500 5000	0.5 0.5	0.33 0.33	1.0 1.0	25 25	6.0 8.0	1.5 1.0	60 40	10 8	150 150	1.125 2.000
SP75F SP100F	7500 10000	0.5 0.5	0.33 0.33	1.0 1.0	25 25	16.0 16.0	1.0 1.0	40 40	8 8	150 150	2.750 3.500
SP125F SP150F	12500 15000	0.5 0.5	0.33 0.33	1.0 1.0	25 25	24.0 24.0	1.0 1.0	40 40	8 8	150 150	4.250 4.250
SP200F SP250F	20000 25000	0.5 0.5	0.33 0.33	1.0 1.0	25 25	32.0 40.0	1.0 1.0	40 40	8 8	150 150	4.250 4.250
FP25F FP50F	2500 5000	2.2 2.2	1.30 1.30	2.0 2.0	50 50	6.0 13.0	3.0 3.0	120 120	20 20	150 150	1.500 2.500
FP75F FP100F	7500 10000	2.2 2.2	1.30 1.30	2.0 2.0	50 50	18.0 24.0	3.0 3.0	120 120	20 20	150 150	3.500 4.500
FP125F FP150F	12500 15000	2.2 2.2	1.30 1.30	2.0 2.0	50 50	30.0 36.0	3.0 3.0	120 120	20 20	150 150	5.500 6.500
FP175F FP200F	17500 20000	2.2 2.2	1.30 1.30	2.0 2.0	50 50	42.0 48.0	3.0 3.0	120 120	20 20	150 150	6.500 6.500
FP175UF FP200UF	17500 20000	2.2 2.2	1.30 1.30	2.0 2.0	50 50	42.0 48.0	3.0 3.0	120 120	20 20	100 100	6.500 6.500
FP250UF	25000	2.2	1.30	2.0	100	75.0	2.0	120	20	100	7.900

(1) T<sub>rr</sub> Testing: I<sub>f</sub>=0.5mA, I<sub>r</sub>=1.0A, I<sub>r</sub>=0.25A, Op. Temp. = 55°C to +150°C, Stg. Temp. = -55°C to +150°C



Part	A	B
SP(XXXXX)	.500 ±.020 (12.70 ±.51)	.250 ±.020 (6.35 ±.51)
FP(XXXXX)	.690 ±.020 (17.53 ±.51)	.380 ±.020 (9.65 ±.51)
FP250UF	.700 ±.020 (17.78 ±.51)	.400 ±.020 (10.16 ±.51)

