



HVCA Number	Repetitive Peak Reverse Voltage $V_{RRM}$ Per Leg V(Volts)	Peak Reverse Voltage, Test $V_{TRM}$ V(Volts)	Avg. Forward Current Max. $I_{F(AVM)}$ @55°C mA(milliamperes)	Max. Forward Voltage Drop $V_{F@I_F}$ Per Leg V(Volts)	Max. Reverse Current $I_R@V_{RRM}@25°C$ $\mu$ A (microAmps)	Max. Surge Current $I_{FSM}$ (8.3ms) A (Amps)	Max. Reverse Recovery Time $T_{rr}$ (nsec)	Figure 20 Board Size
<b>HVB, XRB-High Voltage Rectifier Boards</b>								
HVSB100	100000	-	220	140	2	20	-	A
HVSB150	150000	-	220	182	2	20	-	A
HVSB200	200000	-	220	224	2	20	-	A
HVSBF100	100000	-	220	308	2	10	100	A
HVSBF150	150000	-	220	364	2	10	100	A
HVSBF200	200000	-	220	364	2	10	100	A
XRB100	100000	125000	220	160	2	20	-	B
XRB125	125000	150000	220	192	2	20	-	B
XRB150	150000	175000	220	208	2	20	-	B
XRB175	175000	200000	220	256	2	20	-	B
XRB200	200000	225000	220	256	2	20	-	B
XRBF100	100000	125000	220	352	2	10	100	B
XRBF125	125000	150000	220	352	2	10	100	B
XRBF150	150000	175000	220	416	2	10	100	B
XRBF175	175000	200000	220	416	2	10	100	B
XRBF200	200000	225000	220	416	2	10	100	B
XRBF250	250000	275000	220	560	2	10	100	B
XRLB100	100000	125000	220	170	2	20	-	C
XRLB125	125000	150000	220	204	2	20	-	C
XRLB150	150000	175000	220	221	2	20	-	C
XRLB175	175000	200000	220	221	2	20	-	C
XRLB200	200000	225000	220	272	2	20	-	C
XRLBF100	100000	125000	220	374	2	10	100	C
XRLBF125	125000	150000	220	374	2	10	100	C
XRLBF150	150000	175000	220	442	2	10	100	C
XRLBF175	175000	200000	220	442	2	10	100	C
XRLBF200	200000	225000	220	442	2	10	100	C
XRLBF250	250000	275000	220	595	2	10	100	C
HVMB175	175000	-	220	230	2	20	-	D
HVMB225	225000	-	220	276	2	20	-	D
HVMB275	275000	-	220	299	2	20	-	D
HVMB325	325000	-	220	368	2	20	-	D
HVMBF225	225000	-	220	506	2	10	100	D
HVMBF325	325000	-	220	598	2	10	100	D
HVMBF450	450000	-	220	805	2	10	100	D
HVB200	200000	-	220	300	2	20	-	E
HVB250	250000	-	220	360	2	20	-	E
HVB300	300000	-	220	360	2	20	-	E
HVB350	350000	-	220	390	2	20	-	E
HVB450	450000	-	220	480	2	20	-	E
HVBF200	200000	-	220	660	2	10	100	E
HVBF250	250000	-	220	660	2	10	100	E
HVBF300	300000	-	220	660	2	10	100	E
HVBF350	350000	-	220	780	2	10	100	E
HVBF450	450000	-	220	780	2	10	100	E
HVBF600	600000	-	220	1050	2	10	100	E
<b>HV•B, HV•BF-High Voltage Board Center Tap and Doubler (Voltage is Per Leg, Double the Voltage for the Whole Board)</b>								
HV•B75	75000	-	220	110	2	20	-	F
HV•B100	100000	-	220	132	2	20	-	F
HV•B125	125000	-	220	143	2	20	-	F
HV•B150	150000	-	220	176	2	20	-	F
HVBF•100	100000	-	220	242	2	10	100	F
HVBF•150	150000	-	220	286	2	10	100	F
HVBF•200	200000	-	220	385	2	10	100	F

**Please Note:** Different Circuit Arrangements are identified by using a Circuit Code Letter.

**P=Positive Center Tap**  
**N=Negative Center Tap**  
**D=Doubler**

**Positive Center Tap (P)**

●—|—●—|—●  
 Positive Center Tap 220mA, 75000V/LEG HVBP75

**Negative Center Tap (N)**

●—|—●—|—●  
 Negative Center Tap 220mA, 75000V/LEG HVBN75

**Doubler (D)**

●—|—●—|—●  
 ( $I_{F(AVM)}$  of Doubler is  $I_{F(AVM)} \times 0.5$ )  
 Fast Recovery Doubler 220mA, 75000V/LEG HVBD75

**Notes:** To achieve rated current and voltage, diodes must be submerged in Shell Diala oil AX electrical insulating oil or equivalent.

Boards over 200kv are only forward tested after assembly, all individual diodes are reverse tested at full rated voltage before assembly.



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<b>PBA - Power Board Assembly (Note 1)</b>								
3PBA50	50000	-	3	48	0.5	150	-	Fig 20-14.0x1.25
6PBA25	25000	-	5	25	5	400	-	Fig 20-14.0x1.25
<b>PBA•RC-Resistor Capacitor Compensated Power Board Assembly (Note 1)</b>								
3PBA50RC	50000	-	3	48	500	150	-	*Fig 20-14.0x1.25
6PBA25RC	25000	-	5	25	500	400	-	*Fig 20-14.0x1.25

Note 1: Forced air required. Significantly higher current is available with improved cooling.

\*Consult the factory

Custom board available

