

HIGH VOLTAGE RECTIFIER ASSEMBLIES

0.75-1.0 Amp Kilovolt, Std. Recovery Rectifiers

ISI Part Number	Peak Reverse Voltage PRV (volts)	Average Forward Current at 25C (Amps)	Max. Fwd Voltage Drop at 25C and I _F (volts)	Case Dimensions	
				Length (inches)	Height/Width (inches)
KVA05	5,000	1.00	08	2.5	3/4 x 3/4
KVA06	6,000	1.00	09	2.5	3/4 x 3/4
KVA07	7,000	1.00	10	3.0	3/4 x 3/4
KVA08	8,000	1.00	11	3.0	3/4 x 3/4
KVA09	9,000	1.00	14	3.0	3/4 x 3/4
KVA10	10,000	1.00	15	3.5	3/4 x 3/4
KVA15	15,000	1.00	21	5.0	3/4 x 3/4
KVA20	20,000	0.75	26	5.5	3/4 x 3/4
KVA25	25,000	0.75	32	6.0	3/4 x 3/4
KVA30	30,000	0.75	39	6.0	3/4 x 3/4
KVA35	35,000	0.75	46	6.5	3/4 x 3/4
KVA40	40,000	0.75	53	6.5	3/4 x 3/4
KVA50	50,000	0.75	65	7.0	3/4 x 3/4

0.7-0.9 Amp Kilovolt, Fast Recovery Rectifiers

ISI Part Number	Peak Reverse Voltage PRV (volts)	Average Forward Current at 25C (Amps)	Max. Fwd Voltage Drop at 25C and I _F (volts)	Case Dimensions	
				Length (inches)	Height/Width (inches)
KVA05R	5,000	0.90	10	2.5	3/4 x 3/4
KVA06R	6,000	0.90	11	2.5	3/4 x 3/4
KVA07R	7,000	0.90	12	3.0	3/4 x 3/4
KVA08R	8,000	0.90	13	3.0	3/4 x 3/4
KVA09R	9,000	0.90	16	3.0	3/4 x 3/4
KVA10R	10,000	0.90	17	3.5	3/4 x 3/4
KVA15R	15,000	0.90	25	5.0	3/4 x 3/4
KVA20R	20,000	0.70	30	5.5	3/4 x 3/4
KVA25R	25,000	0.70	36	6.0	3/4 x 3/4
KVA30R	30,000	0.70	43	6.0	3/4 x 3/4
KVA35R	35,000	0.70	50	6.5	3/4 x 3/4
KVA40R	40,000	0.70	58	6.5	3/4 x 3/4
KVA50R	50,000	0.70	72	7.0	3/4 x 3/4

1 Amp Standard Recovery High Voltage Series

ISI Part Number	Peak Reverse Voltage PRV (volts)	Average Forward Current at 25C (Amps)	Max. Fwd Voltage Drop at 25C and I _F (volts)	Case Dimensions	
				Length (inches)	Height/Width (inches)
VRP- 2	2,000	1.0	3	3.0	3/4 x 3/4
VRP- 3	3,000	1.0	4	3.0	3/4 x 3/4
VRP- 4	4,000	1.0	6	3.0	3/4 x 3/4
VRP- 5	5,000	1.0	8	3.0	3/4 x 3/4
VRP- 7	7,000	1.0	11	3.0	3/4 x 3/4
VRP-10	10,000	1.0	15	3.0	3/4 x 3/4
VRP-15	15,000	1.0	21	4.0	3/4 x 3/4
VRP-20	20,000	1.0	28	4.0	3/4 x 3/4
VRP-30	30,000	1.0	42	6.0	3/4 x 3/4
VRP-50	50,000	1.0	70	7.5	3/4 x 3/4

3 Amp Standard Recovery High Voltage Series

ISI Part Number	Peak Reverse Voltage PRV (volts)	Average Forward Current at 25C (Amps)	Max. Fwd Voltage Drop at 25C and I _F (volts)	Case Dimensions	
				Length (inches)	Height/Width (inches)
3VRP-2	2,000	3.0	4	3.0	3/4 x 3/4
3VRP-3	3,000	3.0	6	3.0	3/4 x 3/4
3VRP-4	4,000	3.0	8	3.0	3/4 x 3/4
3VRP-5	5,000	3.0	10	3.0	3/4 x 3/4
HRP- 7	7,000	3.0	14	4.5	1.0 x 1.0
HRP-10	10,000	3.0	17	4.5	1.0 x 1.0
HRP-15	15,000	3.0	25	4.5	1.0 x 1.0
HRP-20	20,000	3.0	33	6.0	1.0 x 1.0

Derate Forward Current 50% at 100 C for VRP, 3VRP, and HRP Series

2.25-2.5 Amp Kilovolt, High Current, Fast Recovery Rectifier Assemblies

ISI Part Number	Peak Reverse Voltage PRV (volts)	Average Forward Current at 25C (Amps)	Max. Fwd Voltage Drop at 25C and I _F (volts)	Case Dimensions	
				Length (inches)	Height/Width (inches)
KVHC05R	5,000	2.50	10	4.00	1.0 x 1.0
KVHC06R	6,000	2.50	11	4.75	1.0 x 1.0
KVHC07R	7,000	2.50	12	5.50	1.0 x 1.0
KVHC08R	8,000	2.50	13	6.00	1.0 x 1.0
KVHC09R	9,000	2.50	16	6.50	1.0 x 1.0
KVHC10R	10,000	2.50	17	7.00	1.0 x 1.0
KVHC15R	15,000	2.25	25	4.00	1.0 x 2.0
KVHC20R	20,000	2.25	33	6.00	1.0 x 2.0
KVHC25R	25,000	2.25	42	8.00	1.0 x 2.0
KVHC30R	30,000	2.25	50	4.00	1.0 x 3.0
KVHC35R	35,000	2.25	58	6.00	1.0 x 3.0
KVHC40R	40,000	2.25	65	8.00	1.0 x 3.0
KVHC50R	50,000	2.25	82	6.00	1.0 x 4.0

2.25-3.00 Amp Kilovolt, High Current, Standard Recovery Rectifier Assemblies

ISI Part Number	Peak Reverse Voltage PRV (volts)	Average Forward Current at 25C (Amps)	Max. Fwd Voltage Drop at 25C and I _F (volts)	Case Dimensions	
				Length (inches)	Height/Width (inches)
KVHC05	5,000	3.00	8	4.00	1.0 x 1.0
KVHC06	6,000	2.75	9	4.75	1.0 x 1.0
KVHC07	7,000	2.75	10	5.50	1.0 x 1.0
KVHC08	8,000	2.75	11	6.00	1.0 x 1.0
KVHC09	9,000	2.50	14	6.50	1.0 x 1.0
KVHC10	10,000	2.50	15	7.00	1.0 x 1.0
KVHC15	15,000	2.50	21	4.00	1.0 x 2.0
KVHC20	20,000	2.25	28	6.00	1.0 x 2.0
KVHC25	25,000	2.25	36	8.00	1.0 x 2.0
KVHC30	30,000	2.25	42	4.00	1.0 x 3.0
KVHC35	35,000	2.25	49	6.00	1.0 x 3.0
KVHC40	40,000	2.25	63	8.00	1.0 x 3.0
KVHC50	50,000	2.25	70	6.00	1.0 x 4.0

Electrical Characteristics

at 25 C unless otherwise specified

	KVA	KVAR	VRP	3VRP/HRP	KVHCR	KVHC
Max DC reverse current at PRV and 25 C - I _r	5 ua	5 ua	2 ua	5 ua	5 ua	5 ua
Max DC reverse current at PRV and 100 C - I _r	100 ua	250 ua	100 ua	100 ua	25 ua	100 ua
Ambient Operating Temperature Range - T _a	-55C to +150C	-55C to +150C	-55 to +150C	-55 to +150C	-55 to +150C	-55 to +150C
Storage Temperature - T _{stg}	-55C to +150C	-55C to +150C	-55 to +150C	-55 to +150C	-55 to +150C	-55 to +150C
Max one-half cycle surge current - I _{fm} at 60 Hz	50 Amps	30 Amps	30 Amps	100 Amps	150 Amps	300 Amps
Forward current repetitive peak - I _{frm}	10 Amps	8 Amps	3 Amps	10 Amps	25 Amps	30 Amps
Max reverse recovery time - T _{rr}		300 ns			200 ns	

Assemblies are ISI's specialty! We can supply any assembly for applications such as X-ray, CRT displays or microwave power supplies. If one of our standard parts does not suffice, we will build one to your specifications.