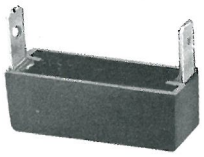
RECTRON

RECTIFIER SPECIALISTS

HV5 THRU HV15

TECHNICAL SPECIFICATIONS OF HIGH VOLTAGE ASSEMBLIED RECTIFIERS HV5-HV15



VOLTAGE RANGE
5000 to 15000 Volts

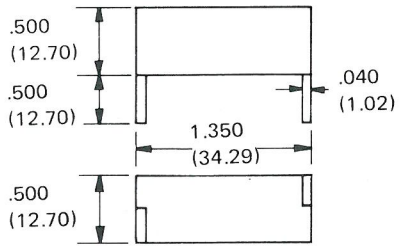
CURRENT
350 Milliamperes

FEATURES

* Low cost
* Low leakage
* Isolated case
* Surge overload rating — 50 amperes peak
* Silver-plated copper terminals
* Mounting position: Any
* Low forward voltage drop
* UL recognized parts

UL RECOGNIZED

HV



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

	HV5	HV8	HV10	HV12	HV14	HV15	UNITS
Maximum Recurrent Peak Reverse Voltage	5	8	10	12	14	15	KV
Maximum RMS Voltage	3.5	5.6	7.0	8.4	9.8	10.5	KV
Maximum DC Blocking Voltage	5	8	10	12	14	15	KV
Maximum Average Forward Rectified Current at T_A = 50°C	350						mA
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	50						A
Maximum Instantaneous Forward Voltage at 0.35A DC	8.0	13.5			14.0		V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_A = 25°C	5.0						μA
Operating and Storage Temperature Range T_J, T_{STG}	–20 to +135						°C

RATING AND CHARACTERISTIC CURVES (HV5 THRU HV15)

FIG. 1 – TYPICAL FORWARD CURRENT DERATING CURVE

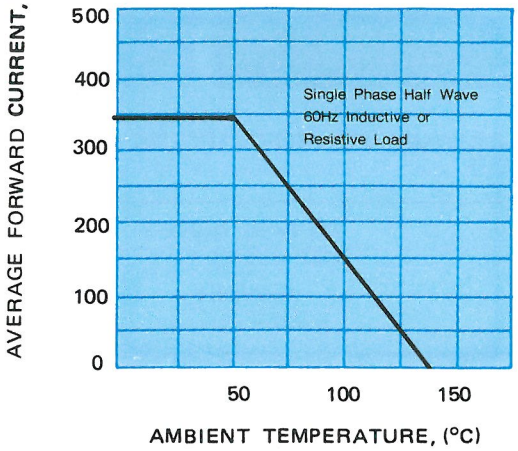


FIG. 2 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

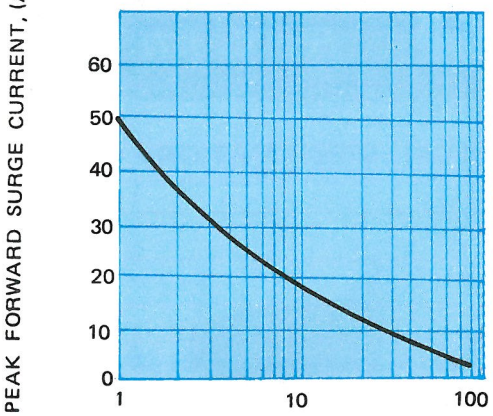


FIG. 3 – TYPICAL REVERSE CHARACTERISTICS

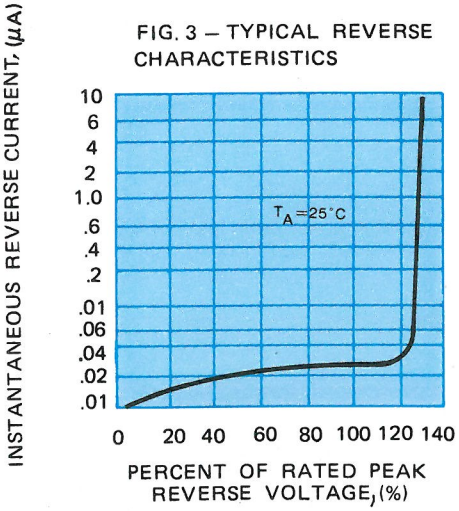
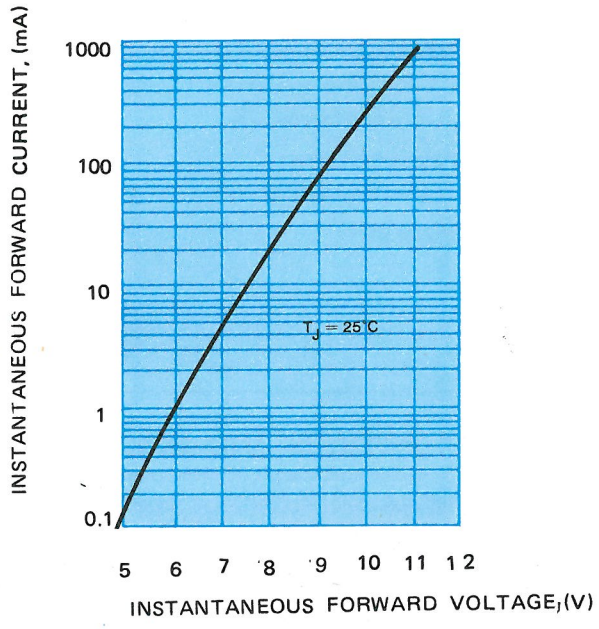


FIG. 4 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



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