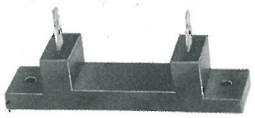
RECTRON
RECTIFIER SPECIALISTS

HC5 THRU HC15

TECHNICAL SPECIFICATIONS OF HIGH VOLTAGE ASSEMBLIED RECTIFIERS HC5 – HC15



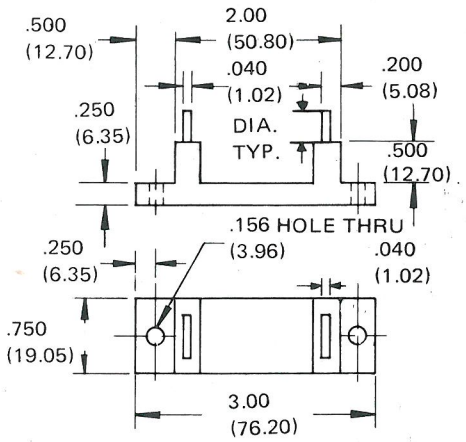
FEATURES

* Low cost
* Low leakage
* Isolated case
* Surge overload rating – 50 amperes peak
* Silver-plated copper terminals
* Mounting position: Any
* Low forward voltage drops

VOLTAGE RANGE
5000 to 15000 Volts

CURRENT
500 TO 1000 Milliamperes

HC



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%.

	HC5	HC8	HC10	HC12	HC15	UNITS
Maximum Recurrent Peak Reverse Voltage	5	8	10	12	15	KV
Maximum RMS Voltage	3.5	5.6	7.0	8.4	10.5	KV
Maximum DC Blocking Voltage	5	8	10	12	15	KV
Maximum Average Forward Rectified Current at T_A = 50°C	1000	750	700	650	500	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 0.5A DC	13					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 (HC5 THRU HC15)

FIG. 1 – TYPICAL FORWARD CURRENT DERATING CURVE

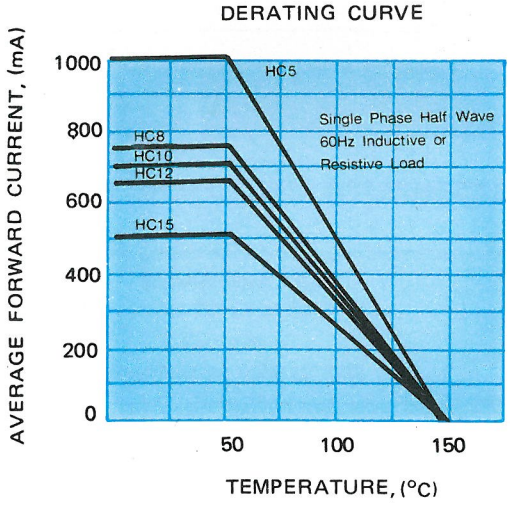


FIG. 2 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

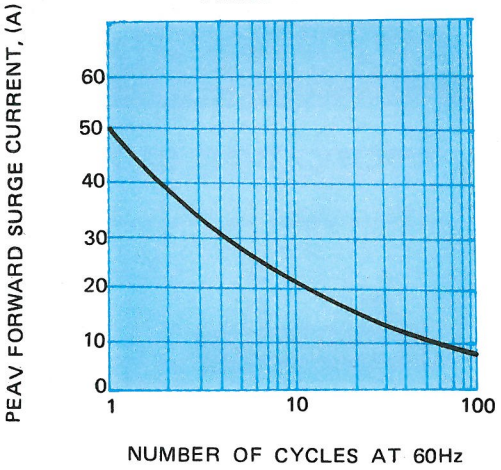


FIG. 3 – TYPICAL REVERSE CHARACTERISTICS

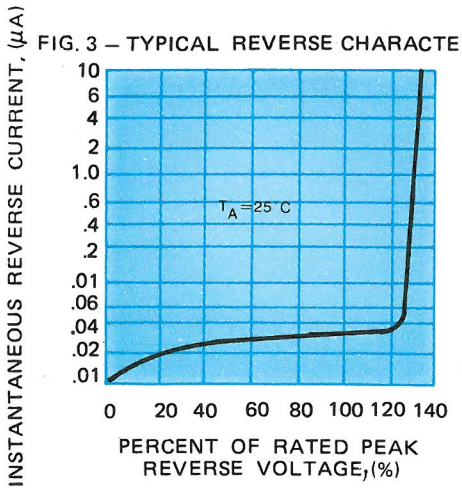
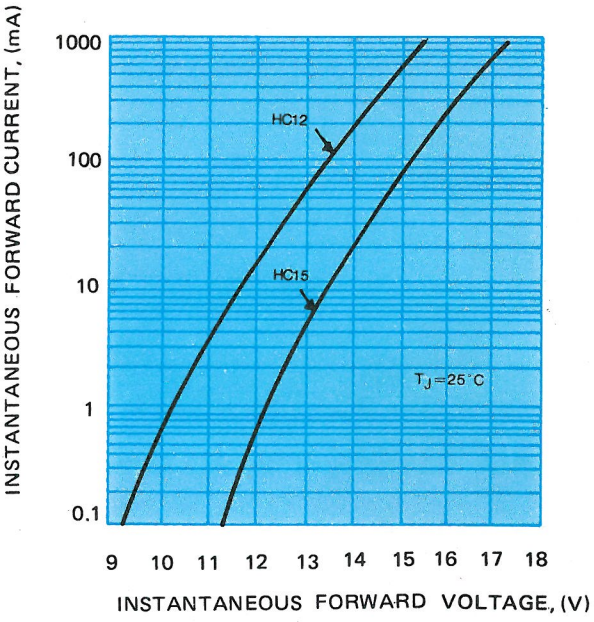


FIG. 4 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



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