



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

**HVM5
THRU
HVM16**

TECHNICAL SPECIFICATIONS OF HIGH VOLTAGE ASSEMBLED RECTIFIER

VOLTAGE RANGE - 5000 to 16000 Volts

CURRENT - 0.35 Ampere

FEATURES

- * Low cost
- * Low leakage
- * Isolated case
- * Surge overload rating - 50 amperes peak
- * Low forward voltage drop

MECHANICAL DATA

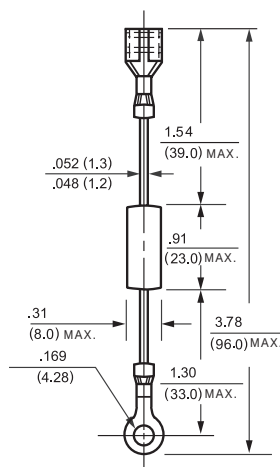
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any

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%.



HVM



Dimensions in inches and (millimeters)

	SYMBOL	HVM5	HVM8	HVM10	HVM12	HVM14	HVM15	HVM16	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	5	8	10	12	14	15	16	K Volts
Maximum RMS Voltage	V _{RMS}	3.5	5.6	7.0	8.4	9.8	10.5	11.2	K Volts
Maximum DC Blocking Voltage	V _{DC}	5	8	10	12	14	15	16	K Volts
Maximum Average Forward Rectified Current at TA = 50°C	Io	350							mAmps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50							Amps
Maximum Instantaneous Forward Voltage at 0.35A DC	VF	8.0	13.5			14.0			Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage TA= 25°C	IR	5.0							uAmps
Operating and Storage Temperature Range	TJ,TSTG	-20 to + 135							°C

NOTES: 1. Enough heat sink must be considered in application.
2. Suffix "-Tox" (e.g., -T01, -T02,) for Terminal type.

RA TING AND CHARACTERISTIC CURVES (HVM5 THRU HVM16)

FIG. 1 - TYPICAL FORWARD CURRENT
DERATING CURVE

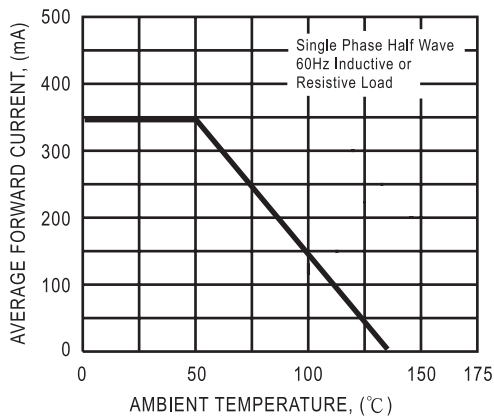


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT

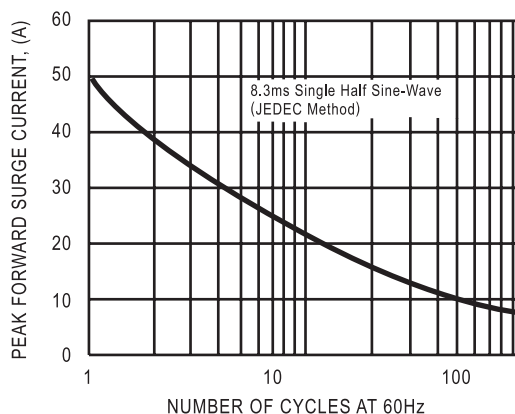


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

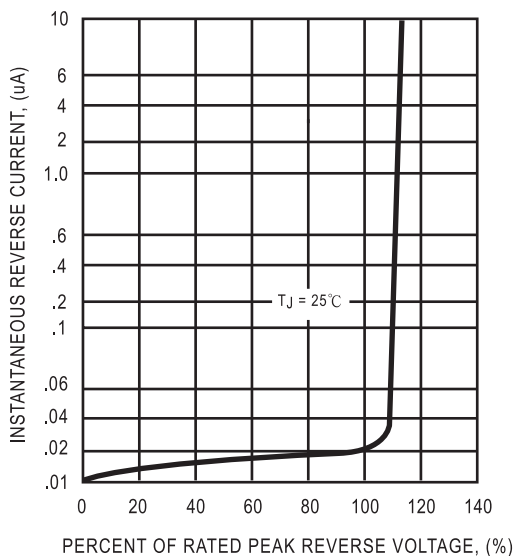
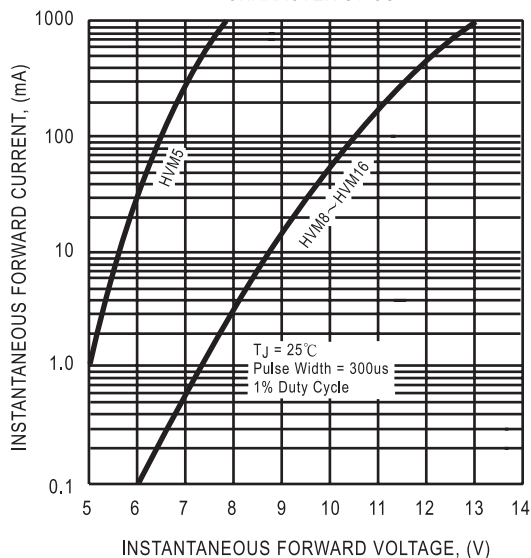


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS



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