DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

HVM5
THRU
HVM16

TECHNICAL SPECIFICATIONS OF HIGH VOLTAGE ASSEMBLIED RECTIFIER

VOLTAGE RANGE - 5000 to 16000 Volts *CURRENT - 0.35 Ampere*

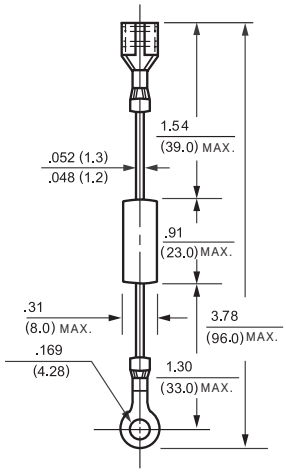
FEATURES

* 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

HVM



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%.

	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 T_A = 50°C	I_O	350							mAmps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50							Amps
Maximum Instantaneous Forward Voltage at 0.35A DC	V_F	8.0	13.5			14.0			Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage T_A= 25°C	I_R	5.0							uAmps
Operating and Storage Temperature Range	T_J,T_{STG}	-20 to + 135							°C

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

NEXT BACK EXIT

RA TING AND CHARACTERISTIC CURVES (HVM5 THRU HVM16)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

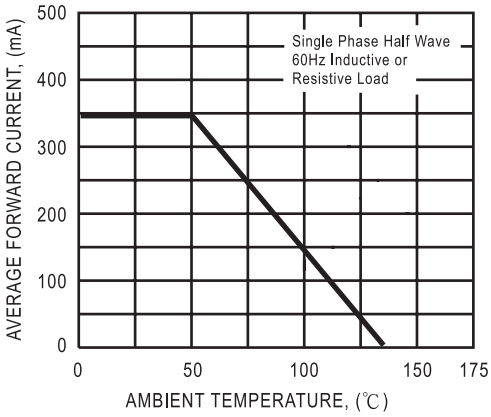


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

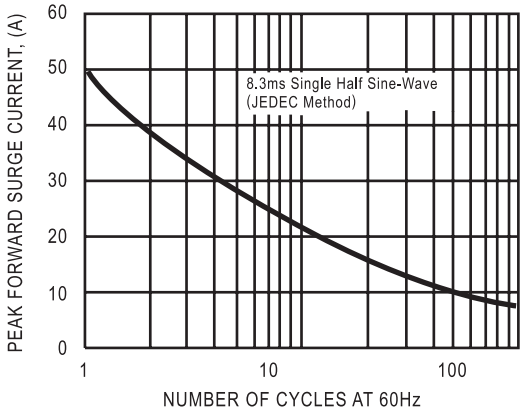


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

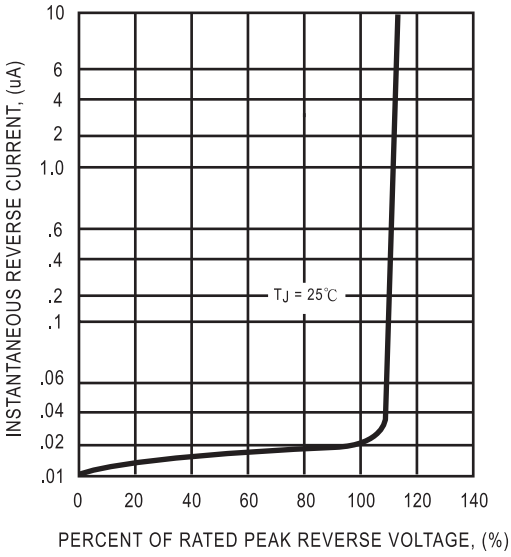
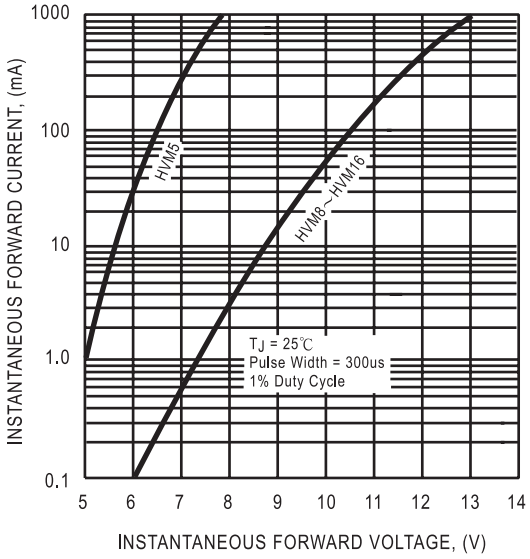


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



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Datasheets for electronics components.