

HIGH VOLTAGE ASSEMBLED RECTIFIER

VOLTAGE RANGE 5000 to 16000 Volts CURRENT 0.35 Amperes

FEATURES

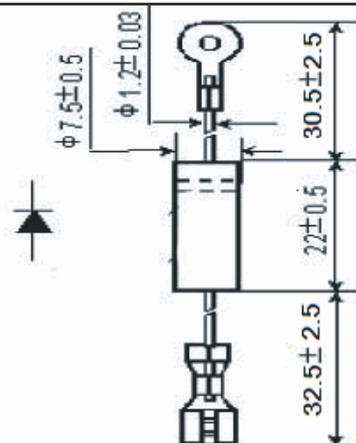
- * Low cost
- * Low leakage
- * Isolated case
- * Surge overload rating - 50 amperes peak
- * Mounting position: Any
- * Low forward voltage drop

MECHANICAL DATA

- * Epoxy : Device has UL flammability classification 94V-0



HVM



Dimensions in 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%.

MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

| RATINGS | SYMBOL | HVM5 | HVM8 | HVM10 | HVM12 | HVM14 | HVM15 | HVM16 | UNITS |
|---|---------|--------------|------|-------|-------|-------|-------|-------|---------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 5 | 8 | 10 | 12 | 14 | 15 | 16 | K Volts |
| Maximum RMS Voltage | VRMS | 3.5 | 5.6 | 7.0 | 8.4 | 9.8 | 10.5 | 11.2 | K Volts |
| Maximum DC Blocking Voltage | VDC | 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 |
| Operating and Storage Temperature Range | TJ,TSTG | -20 to + 150 | | | | | | | °C |

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

| CHARACTERISTICS | SYMBOL | HVM5 | HVM8 | HVM10 | HVM12 | HVM14 | HVM15 | HVM16 | UNITS |
|---|--------|------|------|-------|-------|-------|-------|-------|-------|
| Maximum Instantaneous Forward Voltage at 0.35A DC | VF | 8.0 | 14.0 | | | | | | Volts |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | IR | 5.0 | | | | | | uAmps | |

- NOTES: 1. Enough heat sink must be considered in application.
 2. Operating and Storage Temperature : -20°C to +150°C
 3. Suffix " L " for Wire type.

RATING AND CHARACTERISTIC CURVES (HVM5 THRU HVM16)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

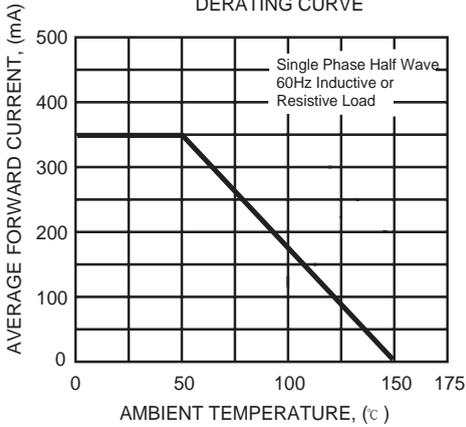


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

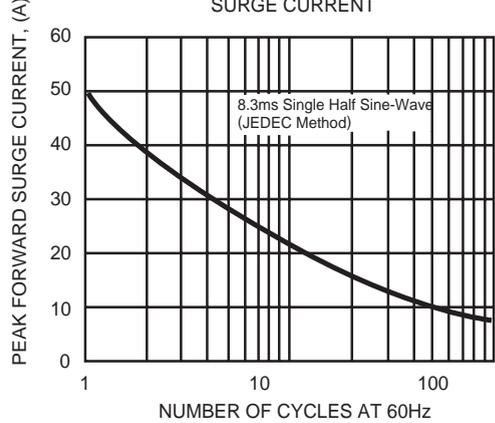


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

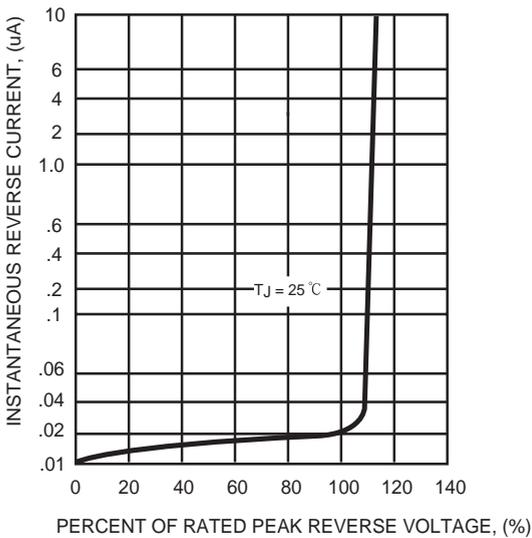
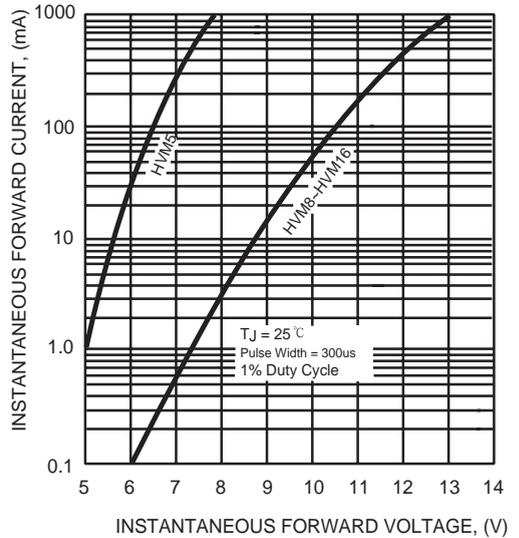


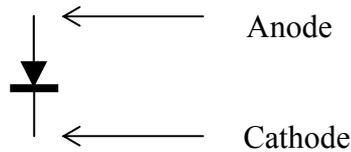
FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



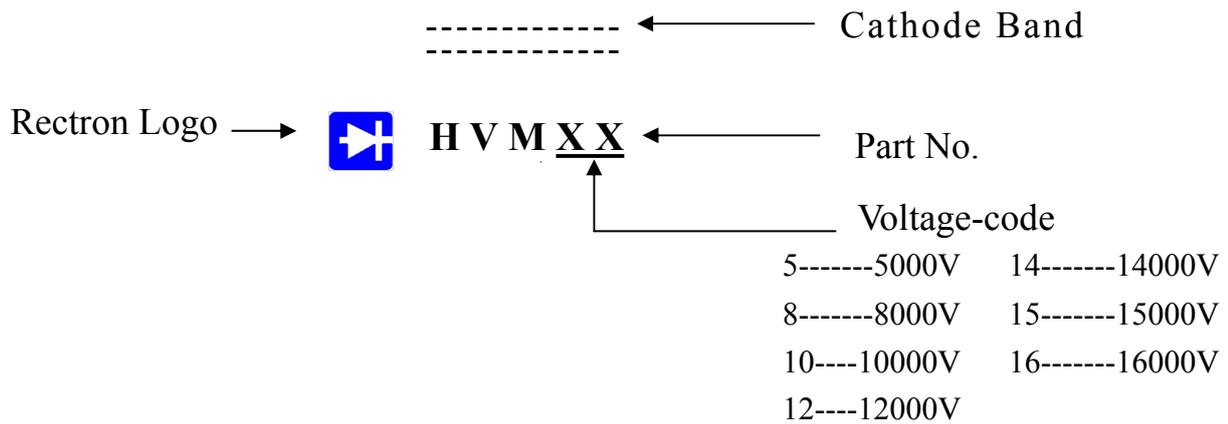


Attachment information about HVMXX

1. Internal Circuit



2. Marking on the body



4. Items marked on the carton

CUSTOMER
TYPE
QUANTITY
LOT NO.
REMARK

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