

HVM5 THRU HVM16

HIGH VOLTAGE ASSEMBLIED RECTIFIER

VOLTAGE RANGE 5000 to 16000 Volts CURRENT 0.35 Amperes

FEATURES

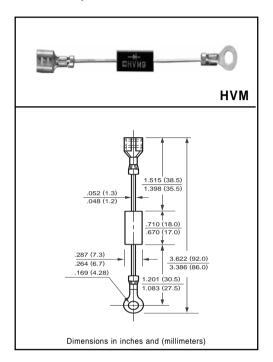
- * Low cost
- * Low leakage
- * Isolated case
- * Surge overload rating 50 amperes peak
- * Mounting position: Any
- * Low forward voltage drop

MECHANICAL DATA

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

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 | lo | 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 | | | | | | | ۰c |

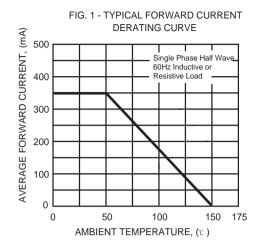
ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

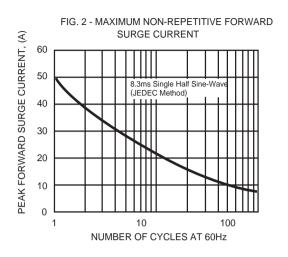
| CHARACTERISTICS | SYMBOL | HVM5 | HVM8 | HVM10 | HVM12 | HVM14 | HVM15 | HVM16 | UNITS |
|---|--------|------|------|-------|-------|-------|-------|-------|-------|
| Maximum Instantaneous Forward Voltage at 0.35A DC | VF | 8.0 | 14.0 | | | | | | Volts |
| Maximum DC Reverse Current at Rated DC Blocking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







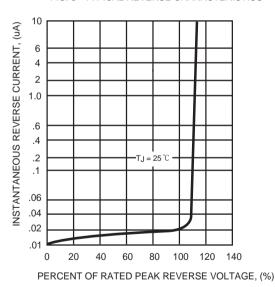


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

