

350 mA High Voltage Silicon Rectifier
Rectifier Reverse Voltage 9000 to 16000V

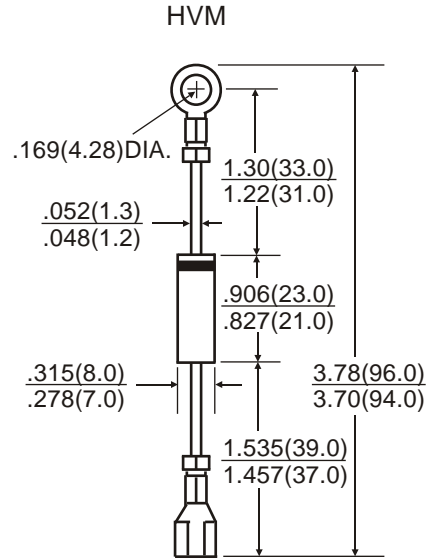


Features

- Controlled Avalanche characteristic combined with the ability to dissipate reverse power
- Low Forward Voltage Drop
- Typical reverse leakage current less than 1 μ A
- Plastic material has UL flammability classification 94V-0

Mechanical Data

Case: Molded plastic
 Terminals: Axial lead with terminals solderable per MIL-STD-202, Method 208
 Polarity: Cathode band
 Mounting Position: Any



All dimensions inches and (millimeters)

Maximum Ratings & Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.
 For Capacitive load derate current by 20%.

Parameter	Symbol	HVM9	HVM12	HVM16	unit
Maximum repetitive peak reverse voltage	VRRM	9000	12000	16000	V
Maximum RMS bridge input voltage	VRMS	6300	8400	11200	V
Maximum DC blocking voltage	VDC	9000	12000	16000	V
Maximum average forward rectified output current at TA=55°C	IF(AV)	350			mA
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	30.0			A
Operating junction and storage temperature range	TJ, TSTG	-55 to + 150			°C

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.
 For Capacitive load derate by 20 %.

Parameter	Symbol	HVM9	HVM12	HVM16	Unit
Maximum instantaneous forward voltage drop per leg at IF DC	VF	10.0	12.0	15.0	V
Maximum DC reverse current at rated TA =25°C DC blocking voltage per element	IR	5.0			μ A

Rating and Characteristic Curves ($T_A=25^{\circ}\text{C}$ Unless otherwise noted)

HVM9 thru HVM16

Fig. 1 Derating Curve for Output Rectified Current

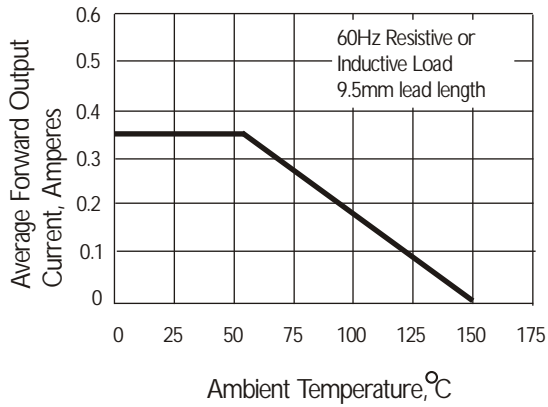


Fig. 2 Peak Forward Surge Current

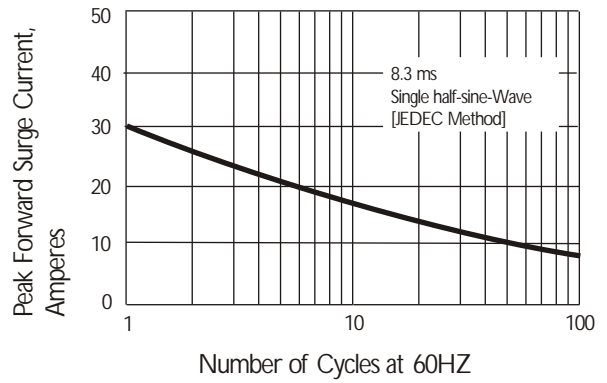


Fig. 3 Typical Instantaneous Forward Characteristics

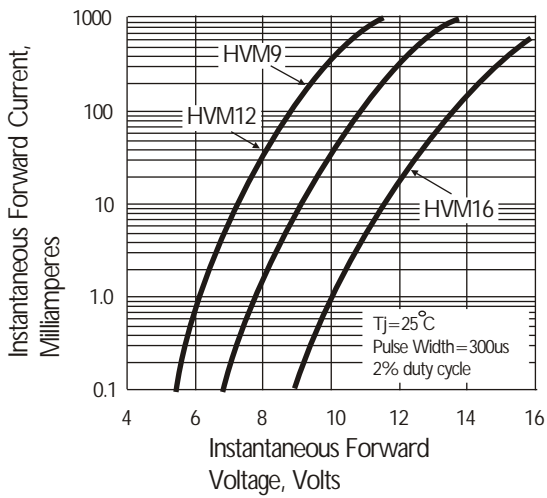


Fig. 4 Typical Reverse Characteristics

