

SHV03 THRU SHV08**HIGH VOLTAGE SILICON RECTIFIER**

VOLTAGE: 3000- 8000V

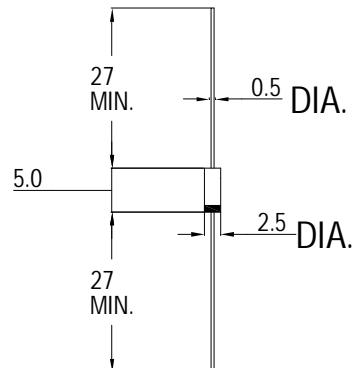
CURRENT: 5mA

FEATURES

- Low power loss, high efficiency
- Low leakage
- Low forward voltage
- High current capability
- High speed switching
- High reliability

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

SHV

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRONICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	SYMBOL	SHV03	SHV06	SHV08	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	3000	6000	8000	V
Maximum RMS Voltage	V_{RMS}	2100	4200	5600	V
Maximum DC Blocking Voltage	V_{DC}	3000	6000	8000	V
Maximum Average Forward Rectified Current at T _A =50°C	I_o		5.0		mA
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}		0.5		A
Maximum Instantaneous Forward Voltage at 0.01A DC	V_F	12	24	50	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _A =25°C	I_R		5.0		μA
Maximum Reverse Recovery Time (Note)	t_{rr}		80		nS

Notes: Test Conditions: I_F=2mA, I_{RM}=4mA.