

# SHV03 THRU SHV08

## HIGH VOLTAGE SILICON RECTIFIER

VOLTAGE: 3000- 8000V

CURRENT: 5mA

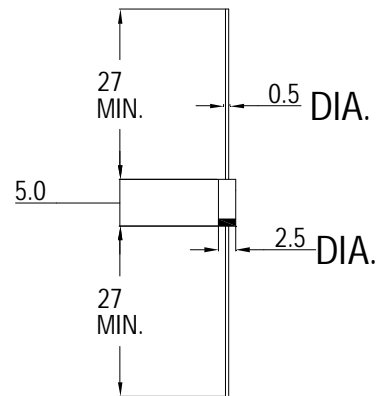
### FEATURES

- 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 ELECTRICAL 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 $T_A=50^\circ\text{C}$	$I_o$	5.0			mA
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate 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 $T_A=25^\circ\text{C}$	$I_R$	5.0			$\mu\text{A}$
Maximum Reverse Recovery Time (Note)	$t_{rr}$	80			nS

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