

## HVP5 THRU HVP16

### FEATURES

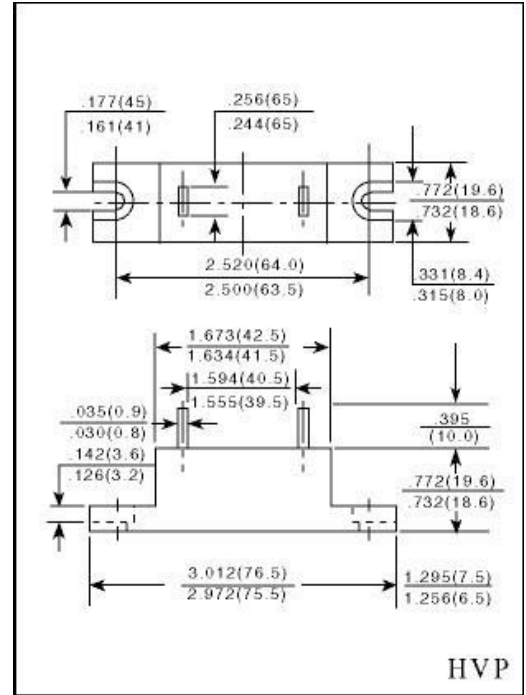
- Low leakage
- Low forward voltage drop
- Controlled avalanche characteristic
- High overload surge capability

### MECHANICAL DATA

- Case: Plastic
- Epoxy: UL94V - 0 rate flame retardant
- Polarity: Polarity symbols marked on case.
- Weight: 1.03 ounce, 29.3 gram  
method 208C

### 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%



|   | SYMBOLS    | HVP5         | HVP8 | HVP10 | HVP12 | HVP14 | HVP15 | HVP16 | UNIT          |
|---|------------|--------------|------|-------|-------|-------|-------|-------|---------------|
| Maximum Repetitive Peak Reverse Voltage   | $V_{RRM}$  | 5000         | 8000 | 10000 | 12000 | 14000 | 15000 | 16000 | Volts         |
| Maximum RMS Voltage   | $V_{RMS}$  | 3500         | 5600 | 7000  | 8400  | 9800  | 10500 | 11200 | Volts         |
| Maximum DC Blocking Voltage   | $V_{DC}$   | 5000         | 8000 | 10000 | 12000 | 14000 | 15000 | 16000 | Volts         |
| Maximum Average Forward Rectified Current at $T_A = 60^\circ\text{C}$   | $I_{(AV)}$ | 750          |      |       |       |       |       |       | Amps          |
| Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | $I_{FSM}$  | 50           |      |       |       |       |       |       | Amps          |
| Maximum Instantaneous Forward Voltage Drop at 550mA   | $V_F$      | 14.0         |      |       |       |       |       |       | Volts         |
| DC Reverse Current at rated DC blocking voltage   | $I_R$      | 5.0          |      |       |       |       |       |       | $\mu\text{A}$ |
| Operating Temperature Range   | $T_J$      | (-20 to 135) |      |       |       |       |       |       | °C            |
| Storage Temperature Range   | $T_{STG}$  | (-20 to 135) |      |       |       |       |       |       |               |