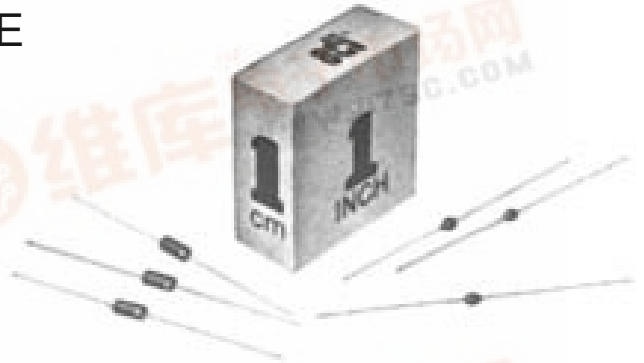




# HV HX

## HIGH VOLTAGE RECTIFIERS ULTRA-MINIATURE AND MINIATURE

- SMALL SIZE EPOXY PACKAGES
- FAST AND STANDARD RECOVERY TIMES
- PRV TO 10,000 VOLTS
- VERY LOW REVERSE LEAKAGE



| EDI Type No. | Peak Reverse Voltage PRV (Volts) | Avg. Forward Current $I_o$ (mA) 100°C | Max. Fwd Voltage @ 10mA & 25°C | Max. Peak Surge Current, $I_{FSM}$ (8.3ms) (Amps) | Package Style |
|--------------|----------------------------------|---------------------------------------|--------------------------------|---------------------------------------------------|---------------|
|--------------|----------------------------------|---------------------------------------|--------------------------------|---------------------------------------------------|---------------|

### ULTRA-MINIATURE, STANDARD RECOVERY

|          |       |    |     |   |   |
|----------|-------|----|-----|---|---|
| HV 15 PD | 1,500 | 80 | 6.0 | 5 | P |
| HV 20 PD | 2,000 |    |     |   |   |
| HV 25 PD | 2,500 |    |     |   |   |
| HV 30 PD | 3,000 |    |     |   |   |
| HV 10 P  | 1,000 | 50 | 6.0 | 5 | P |
| HV 20 P  | 2,000 |    |     |   |   |
| HV 30 P  | 3,000 |    |     |   |   |
| HV 40 P  | 4,000 |    |     |   |   |
| HV 50 P  | 5,000 |    |     |   |   |

### ULTRA-MINIATURE, 100 NANOSECOND RECOVERY (FIG.4)

|          |       |    |      |   |   |
|----------|-------|----|------|---|---|
| HX 15 PD | 1,500 | 60 | 6.0  | 3 | P |
| HX 20 PD | 2,000 |    |      |   |   |
| HX 25 PD | 2,500 |    |      |   |   |
| HX 30 PD | 3,000 |    |      |   |   |
| HX 10 P  | 1,000 | 40 | 10.0 | 3 | P |
| HX 20 P  | 2,000 |    |      |   |   |
| HX 30 P  | 3,000 |    |      |   |   |
| HX 40 P  | 4,000 |    |      |   |   |
| HX 50 P  | 5,000 |    |      |   |   |

### MINIATURE, 100 NANOSECOND RECOVERY (FIG.4)

|           |        |    |      |   |   |
|-----------|--------|----|------|---|---|
| HX 10 M   | 1,000  | 40 | 10.0 | 3 | M |
| HX 20 M   | 2,000  |    |      |   |   |
| HX 30 M   | 3,000  |    |      |   |   |
| HX 40 M   | 4,000  |    |      |   |   |
| HX 50 M   | 5,000  |    |      |   |   |
| HX 60 ML  | 6,000  | 20 | 20.0 | 3 | M |
| HX 80 ML  | 8,000  |    |      |   |   |
| HX 100 ML | 10,000 |    |      |   |   |



# HV HX

## ELECTRICAL CHARACTERISTICS(at $T_A=25^\circ\text{C}$ Unless Otherwise Specified)

|                                                               | HV Series                     | HX Series        |
|---------------------------------------------------------------|-------------------------------|------------------|
| Max. DC Reverse Current @ PRV and $25^\circ\text{C}$ , $I_R$  | 10nA                          | 100nA            |
| Max. DC Reverse Current @ PRV and $100^\circ\text{C}$ , $I_R$ | $3\ \mu\text{A}$              | $5\ \mu\text{A}$ |
| Ambient Operating Temperature Range, $T_A$                    | $-55$ to $+125^\circ\text{C}$ |                  |
| Storage Temperature Range, $T_{STG}$                          | $-55$ to $+150^\circ\text{C}$ |                  |

FIG.1

OUTPUT CURRENT vs AMBIENT TEMPERATURE

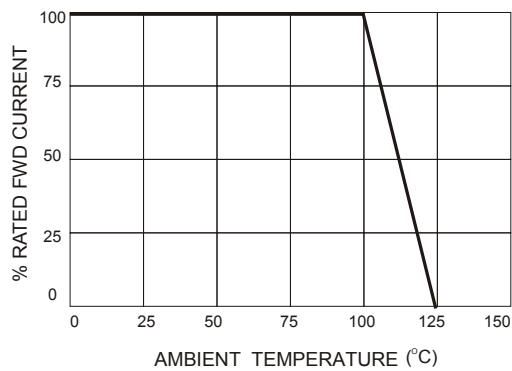


FIG.2

NON-REPETITIVE SURGE CURRENT

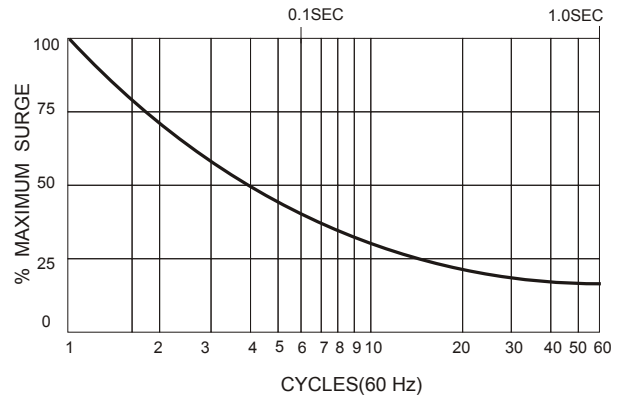


FIG.3  
MECHANICAL DIMENSIONS

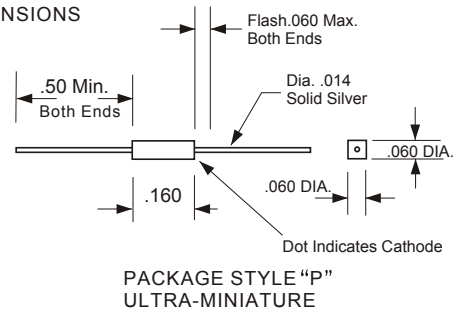
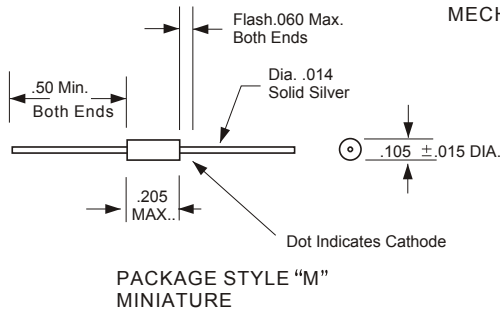


FIG.4  
REVERSE RECOVERY TEST METHOD

