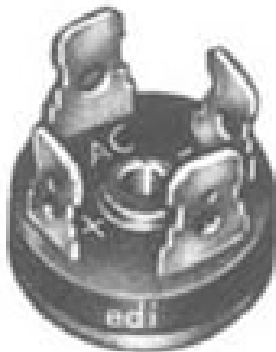




PKR-F

FAST RECOVERY MINIBRIDGE<sup>®</sup>  
 10 AMPERES-TAB TERMINALS  
 SINGLE-PHASE FULL-WAVE BRIDGES  
 HEAT SINK AND CHASSIS MOUNTING



**RU** This mark indicates recognition under the component program of Underwriters Laboratories, Inc.

PKR-F SERIES

|          |        |         |         |         |         |         |         |
|----------|--------|---------|---------|---------|---------|---------|---------|
| PRV/leg  | 50V    | 100V    | 200V    | 400V    | 600V    | 800V    | 1000V   |
| Type No. | PKR05F | PKR 10F | PKR 20F | PKR 40F | PKR 60F | PKR 80F | PKR100F |

ELECTRICAL CHARACTERISTICS PER LEG  
 (at T<sub>A</sub>=25 °C Unless Otherwise Specified)

|   |             |           |
|---|-------------|-----------|
| Average Output Current, I <sub>o</sub> @ 60 °C T <sub>c</sub> (Fig.1) | 10          | Amp       |
| Max.Forward Voltage Drop, V <sub>F</sub> =1.25 V @ I <sub>F</sub> =   | 2.0         | Amp       |
| Max. DC Reverse Current @ PRV and 25°C, I <sub>R</sub>                | 5           | μA        |
| Max. DC Reverse Current @ PRV and 100°C, I <sub>R</sub>               | 100         | μA        |
| Max. Reverse Recovery , T <sub>rr</sub> (Fig.4)                       | 200         | Nano Sec. |
| Max. Peak Surge Current, I <sub>FSM</sub> (8.3ms)                     | 125         | Amp       |
| Storage Temperature Range, T <sub>STG</sub>                           | -55 to +150 | °C        |
| Thermal Resistance (Total Bridge), R <sub>θj-c</sub>                  | 4.5typ.     | °C/W      |

EDI reserves the right to change these specifications at any time without notice.

# PKR-F

FIG. 1  
PKR-F SERIES CURRENT DERATING

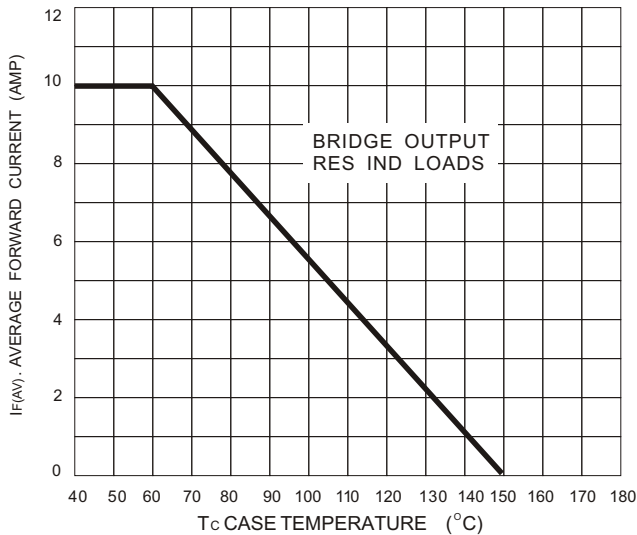


FIG. 2

NON-REPETITIVE SURGE CURRENT

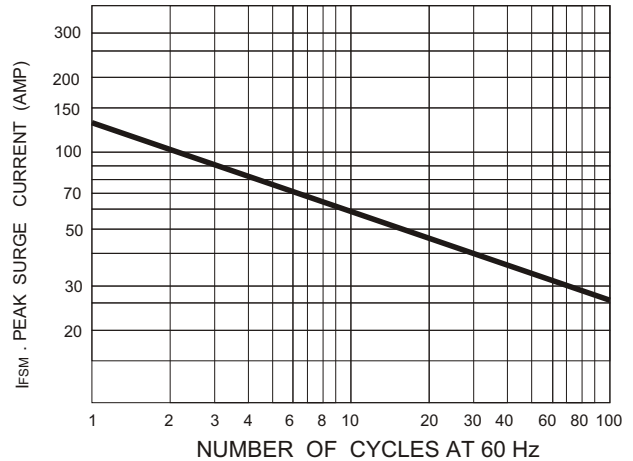


Figure 3  
POWER DISSIPATION

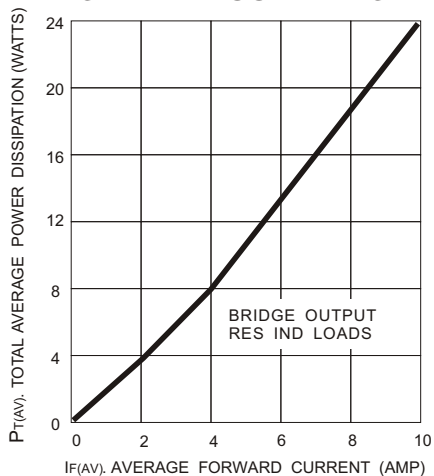
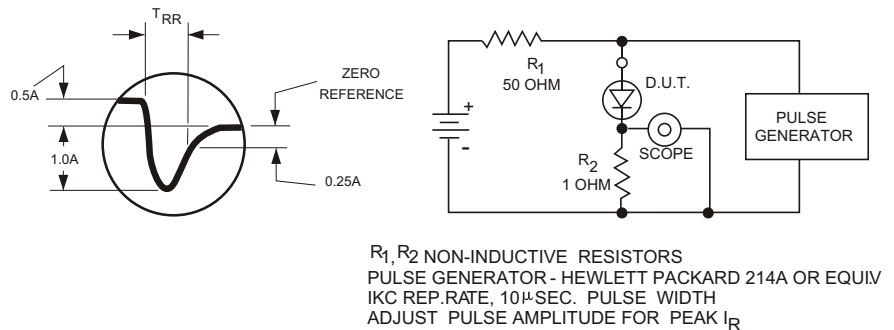
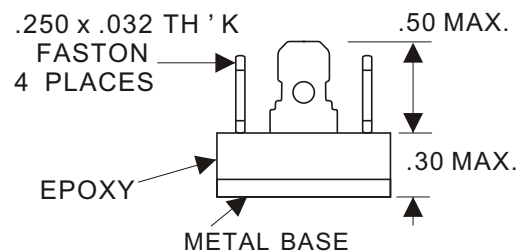
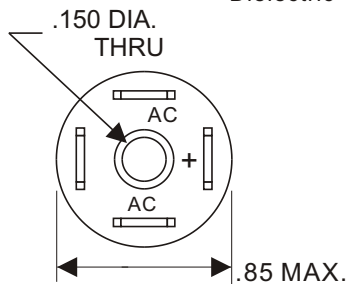


FIG. 4  
TEST CIRCUIT



## PKR-F SERIES MECH. OUTLINE

Dielectric test voltage 1500 volts rms, max. 50-60Hz



NOTE: A thin film of silicone thermal compound is recommended between the Minibrige<sup>®</sup> case and mounting surface for improved thermal conduction.

**ELECTRONIC DEVICES, INC.** DESIGNERS AND MANUFACTURERS OF SOLID STATE DEVICES SINCE 1951.

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