

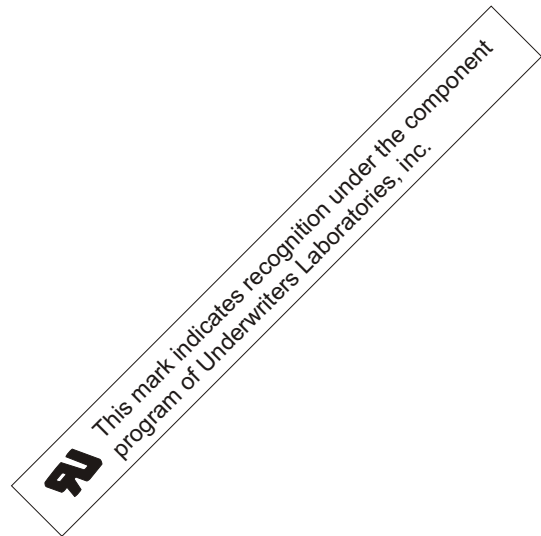


PKR

**FAST RECOVERY MINIBRIDGE®**  
**8 AMPERES**  
 SINGLE-PHASE FULL-WAVE BRIDGES  
 HEAT SINK AND CHASSIS MOUNTING



**PKR SERIES**



PRV/leg	50V	100V	200V	400V	600V	800V	1000V
Type No.	PKR05	PKR10	PKR20	PKR40	PKR60	PKR80	PKR100

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

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>	10	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	Nanosec.
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>	5.2Typ.	°C/W

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

Fig 1

## PKR SERIES CURRENT DERATING

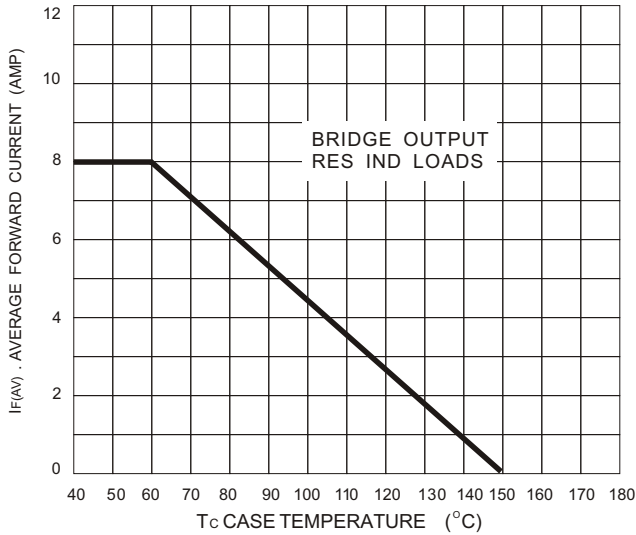


Fig 2

## NON-REPETITIVE SURGE CURRENT

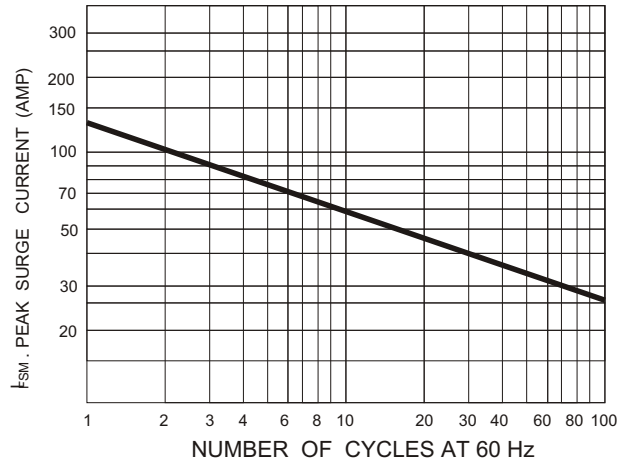


Fig 3

## POWER DISSIPATION

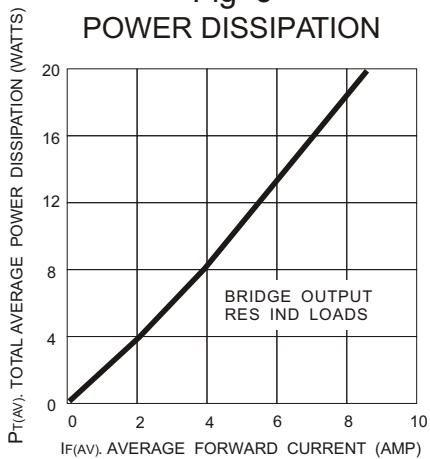
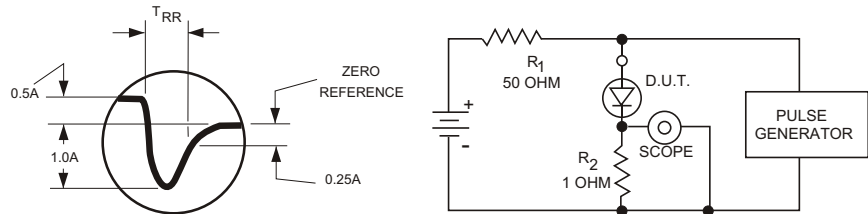


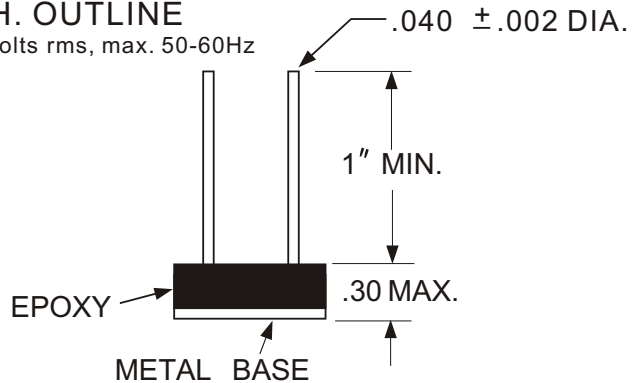
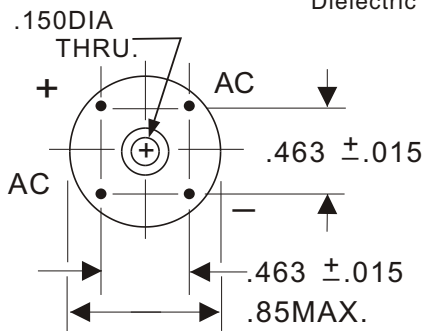
FIG. 4  
TEST CIRCUIT



R<sub>1</sub>, R<sub>2</sub> NON-INDUCTIVE RESISTORS  
 PULSE GENERATOR - HEWLETT PACKARD 214A OR EQUIV  
 IKC REP. RATE, 10<sup>μ</sup> SEC. PULSE WIDTH  
 ADJUST PULSE AMPLITUDE FOR PEAK I<sub>R</sub>

## PKR SERIES MECH. OUTLINE

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



- NOTE: 1. A thin film of silicone thermal compound is recommended between the Minibrige<sup>®</sup> case and mounting surface for improved thermal conduction.  
 2. Fast-on terminals available. Consult factory.

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

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