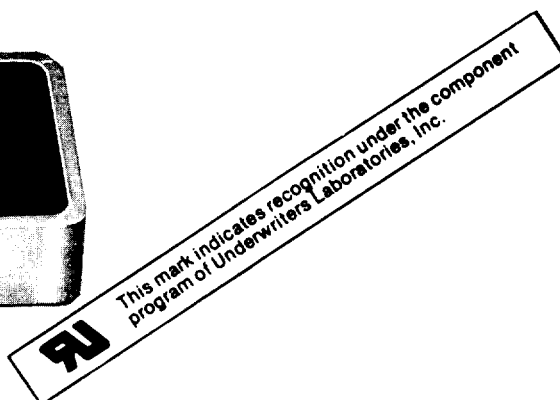
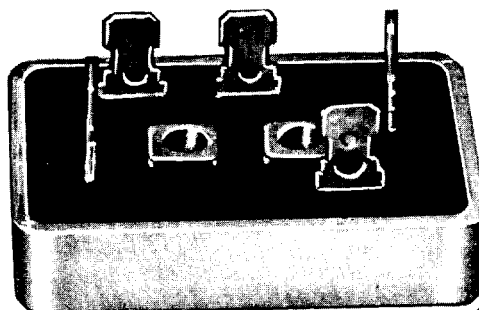


# FAST RECOVERY MINIBRIDGE®

200 NANOSECOND RECOVERY

17 AMPERE THREE-PHASE FULL-WAVE BRIDGES  
HEAT SINK AND CHASSIS MOUNTING



## PBTR SERIES

| PRV/leg  | 50V    | 100V   | 200V   | 400V   | 600V   | 800V   | 1000V   |
|----------|--------|--------|--------|--------|--------|--------|---------|
| Type No. | PBTR05 | PBTR10 | PBTR20 | PBTR40 | PBTR60 | PBTR80 | PBTR100 |

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

|                                                               |             |                    |
|---------------------------------------------------------------|-------------|--------------------|
| Max. Forward Voltage Drop, $V_F = 1.4\text{ V @ } I_F =$      | 2.0         | Amp                |
| Max. DC Reverse Current @ PRV and $25^\circ\text{C}$ ,        | 10          | $\mu\text{A}$      |
| Max. DC Reverse Current @ PRV and $100^\circ\text{C}$ , $I_R$ | 300         | $\mu\text{A}$      |
| Max. Peak Surge Current, $I_{FSM}$ (8.3 ms)                   | 200         | Amp                |
| Max. Reverse Recovery Time, $T_{rr}$ (Fig. 1)                 | 200         | nanosec            |
| Storage Temperature Range, $T_{stg}$                          | -55 to +175 | $^\circ\text{C}$   |
| Thermal Resistance(Total Bridge), $\theta_{j-c}$              | 3.5 typ.    | $^\circ\text{C/W}$ |

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

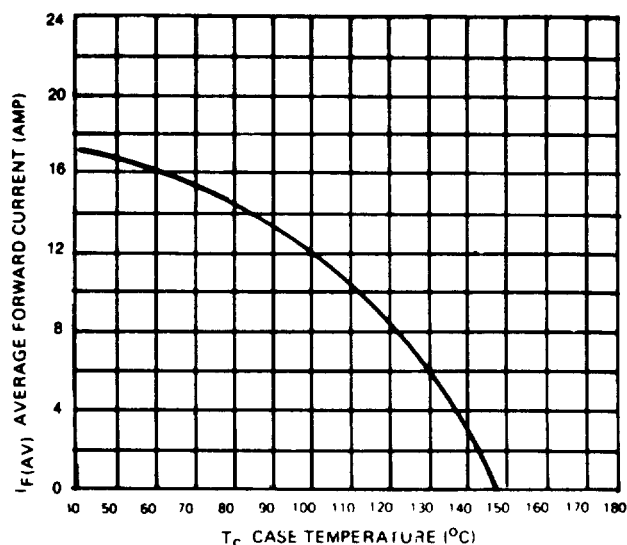


**ELECTRONIC DEVICES, INC.**

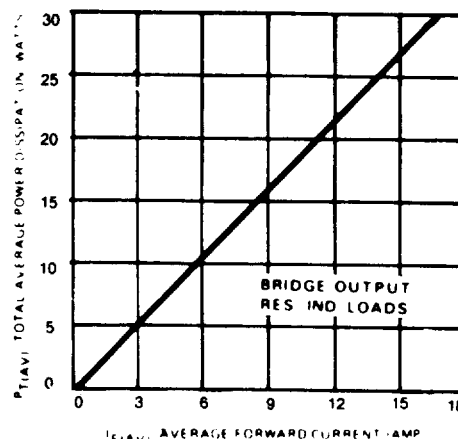
21 GRAY OAKS AVENUE • YONKERS, NEW YORK 10710  
914-965-4400 • FAX 914-965-5531 • 1-800-678-0828  
e-mail: sales@edidiodes.com • website: www.edidiodes.com



**Figure 1**  
**CURRENT DERATING**

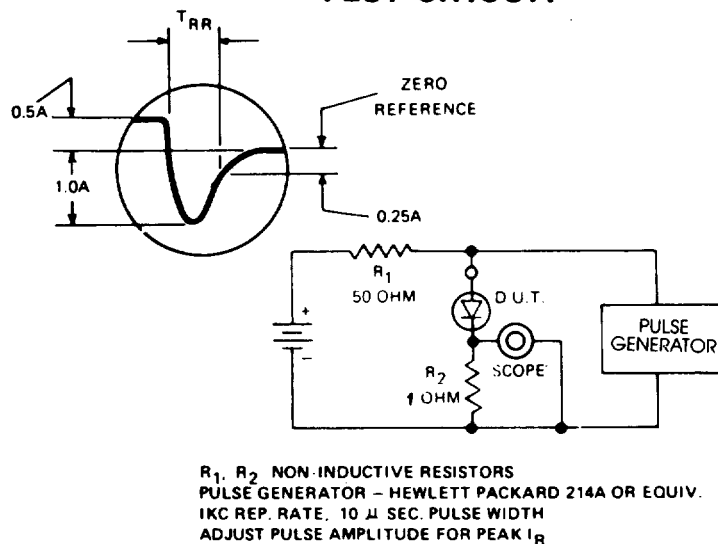


**Figure 2**  
**POWER DISSIPATION**

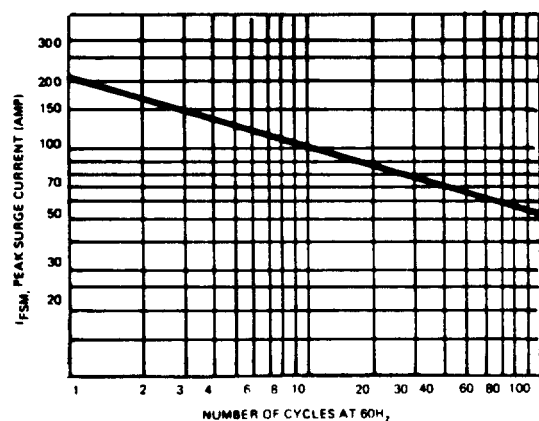


**FIG. 4**

**TEST CIRCUIT**

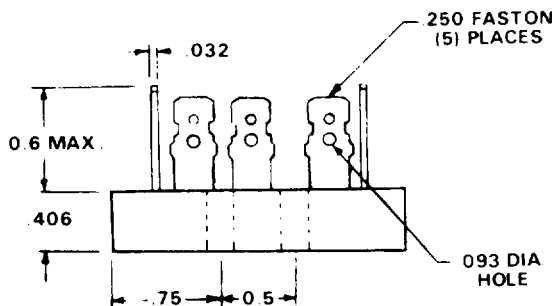
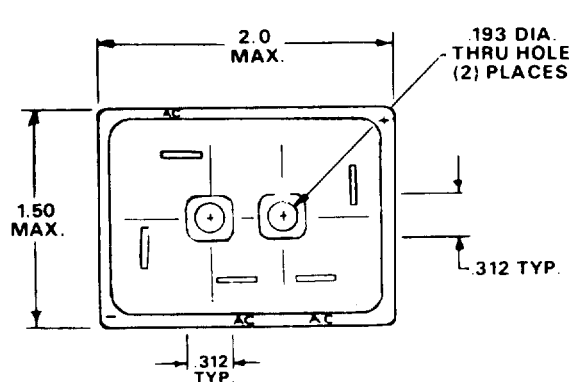


**Figure 3**  
**NON-REPETITIVE SURGE CURRENT**



## PBTR SERIES MECH. OUTLINE

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



- NOTES:**
1. Corrosion resistant terminals designed for .250 female quick connector, wrap around or solder
  2. A thin film of silicone thermal compound is recommended between the Minibridge <sup>®</sup> case and mounting surface for improved thermal conduction.