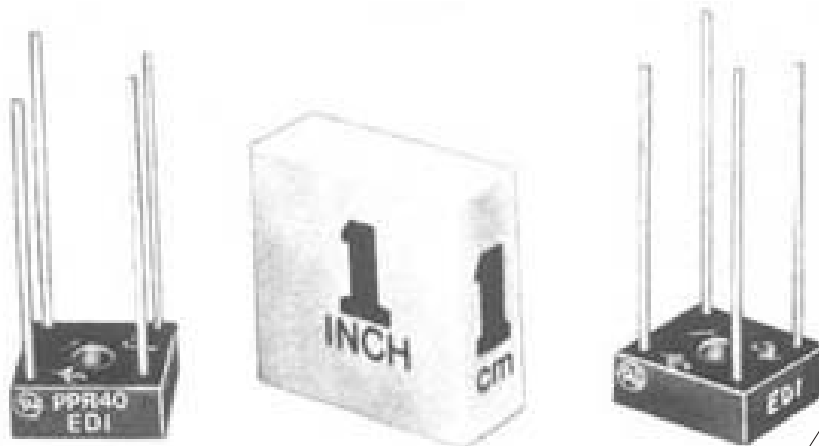




PPR

**FAST RECOVERY**  
**SINGLE-PHASE FULL WAVE BRIDGE**  
**5.0 AMPERES HEAT SINK MOUNTING**  
**2.0 AMPERES FOR P.C. BOARD MOUNTING**



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

**PPR SERIES**

PRV/leg	50V	100V	200V	400V	600V	800V	1000V
Type No.	PPR05	PPR10	PPR20	PPR40	PPR60	PPR80	PPR100

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

Max. Reverse Recovery, $T_{rr}$ (Fig.4)	200	Nano Sec.
Max. Forward Voltage Drop, $V_F = 1.3\text{ V @ } I_F =$	2.0	Amp
Max. DC Reverse Current @ PRV and $25^\circ\text{C}$ , $I_R$	1.0	$\mu\text{A}$
Max. Peak Surge Current, $I_{FSM}$ (8.3ms)	100	Amp
Ambient Operating Temperature Range, $T_A$	-55 to +150	$^\circ\text{C}$
Storage Temperature Range, $T_{STG}$	-55 to +150	$^\circ\text{C}$
Thermal Resistance (Total Bridge), $R_{\theta j-c}$	7.0typ.	$^\circ\text{C/W}$

**NOTE:**

Maximum lead and terminal temperature for soldering, 3/8 inch from case, 5 seconds at  $250^\circ\text{C}$ .

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

Figure 1

PPR SERIES CURRENT DERATING

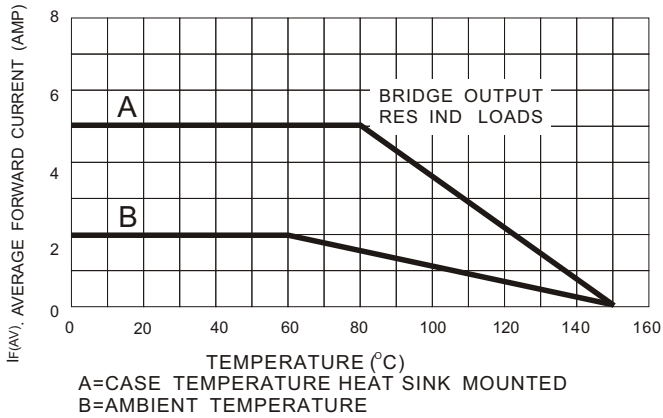


Figure 2

NON-REPETITIVE SURGE CURRENT

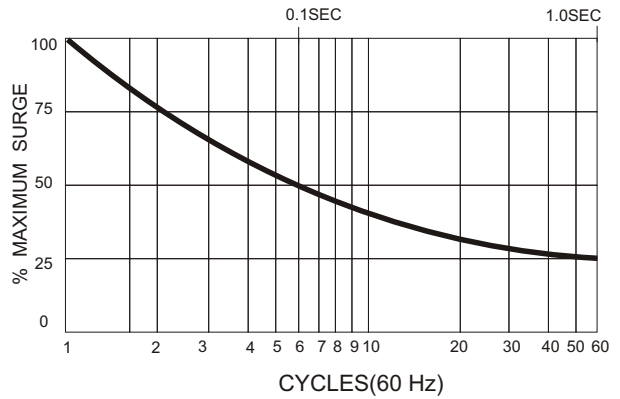


Figure 3

POWER DISSIPATION

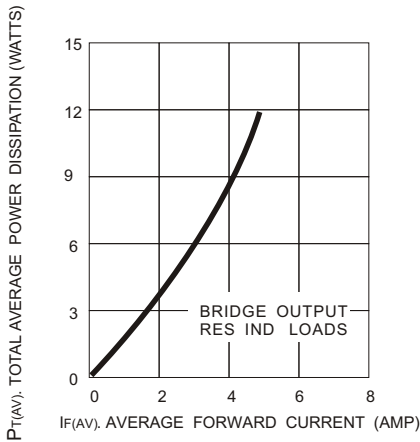
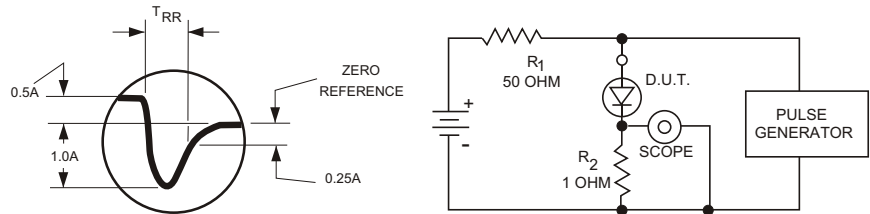


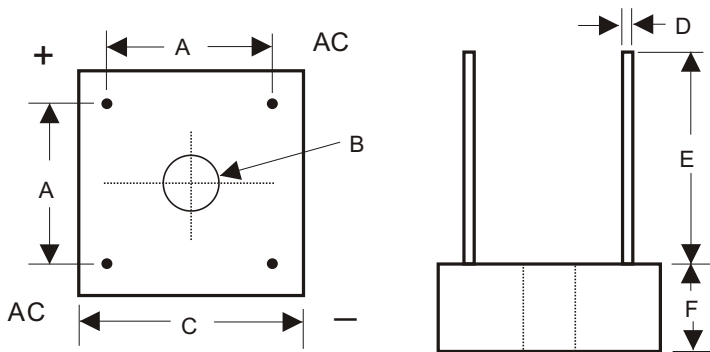
Figure 4

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>

PPR SERIES MECHANICAL OUTLINE



LTR	INCHES	MILLIMETERS
A	.411-.441	10.44-11.20
B	.137-.167 DIA	3.48-4.24 DIA
C	.590-.610	14.99-15.49
D	.038-.042	.97-1.07
E	1.000 MIN	25.4 MIN
F	.300 MAX	7.62 MAX

NOTE: A thin film of silicone thermal compound is recommended between the Minibridge<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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