



**HIGH VOLTAGE, HIGH CURENT,  
STANDARD & FAST RECOVERY,  
SILICON RECTIFIER DIODES**

- Up to 250 nanosec. max recovery
- Exceptionally low leakage
- Avalanche characteristics



EDI T YPE #	PRV VOLTS	REVERSE RECOVERY TIME
FB4	4,000	Not Applicable
FB5	5,000	Not Applicable
FBR3	3,000	250 Nanoseconds Max
FBR3.5	3,500	250 Nanoseconds Max
FBR4	4,000	250 Nanoseconds Max

**Electrical Characteristics (at T<sub>A</sub> = 25°C Unless Otherwise Specified)**

ELECTRICAL CHARACTERISTIC	FB Series	FBR Series
AVERAGE FORWARD CURRENT, I <sub>o</sub> (With Proper Heat sink)	4.0 A	3.0 A
AVERAGE FORWARD CURRENT, I <sub>o</sub> (Circuit Board Mounted)	2.0 A	1.5 A
MAX FORWARD VOLTAGE DROP (@ 20 Amps),	5.0 V	6.5 V
MAX SURGE CURRENT (1/2 CYCLE, 60 Hz)	800 A	800 A
MAX DC REVERSE CURRENT (25°C)	5.0 μA	5.0 μA
OPERATING TEMPERATURE RANGE	-55 To 150°C	
STORAGE TEMPERATURE RANGE	-55 To 150°C	

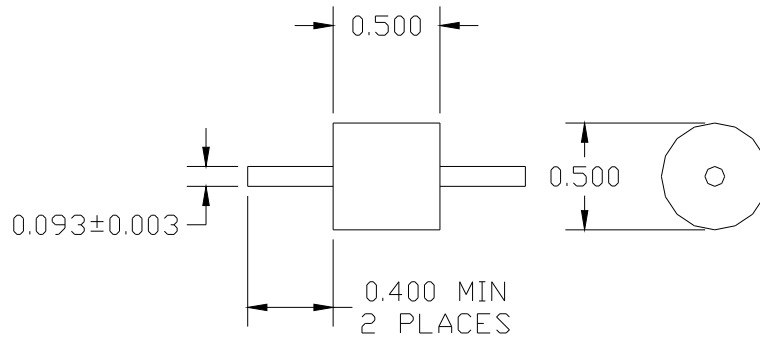
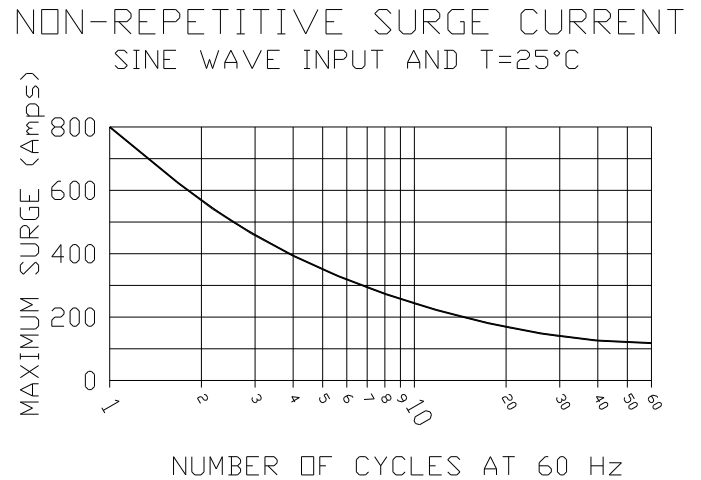
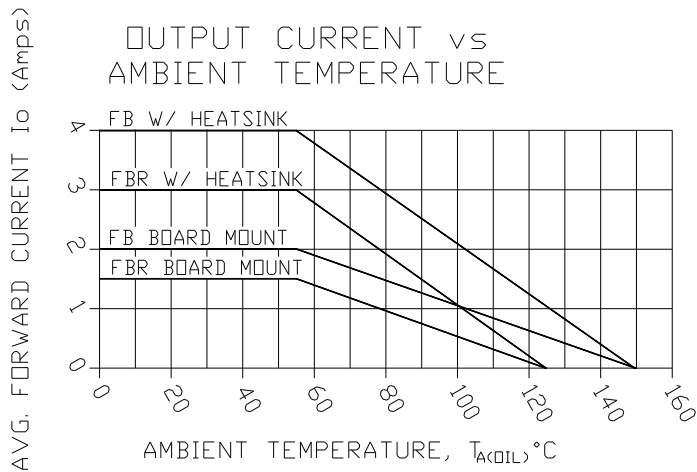
NOTES: It is recommended that a proper heat sink be used on the terminals of this device between the body and the soldering point to prevent damage from excess heat.

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

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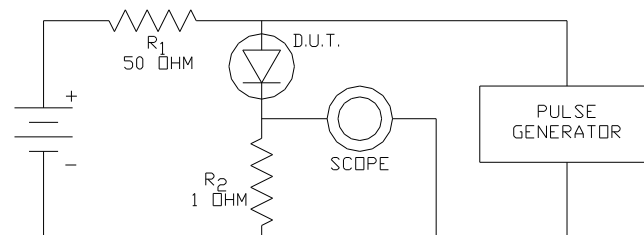
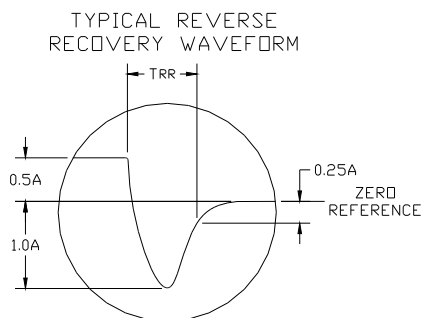
21 GRAY OAKS AVENUE \* YONKERS, NEW YORK 10710 914-965-4400 \* FAX 914-965-5531 \* 1-800-678-0828

E-mail:sales@edidiodes.com \* website: http://www.edidiodes.com



NOTE: Maximum lead and terminal temperature for soldering: 1/4 inch from case, for 5 seconds at 250°C

## TEST CIRCUIT



R<sub>1</sub>, R<sub>2</sub> NON-INDUCTIVE RESISTORS  
 PULSE GENERATOR - HP 214 OR EQUIVALENT  
 IKC REP RATE - 10 μSEC. PULSE WIDTH  
 ADJUST PULSE AMPLITUDE FOR PEAK I<sub>R</sub>

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