FB FBR

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

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



EDI TYPE #	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_A= 25°C Unless Otherwise Specified)

ELECTRICAL CHARACTERISTIC	FB Series	FBR Series
AVERAGE FORWARD CURRENT, I_O (With Proper Heat sink)	4.0 A	3.0 A
AVERAGE FORWARD CURRENT, I_O (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 (25ºC)	5.0 µA	5.0 µA
OPERATING TEMPERATURE RANGE	-55 To 150ºC	
STORAGE TEMPERATURE RANGE	-55 To 150ºC	

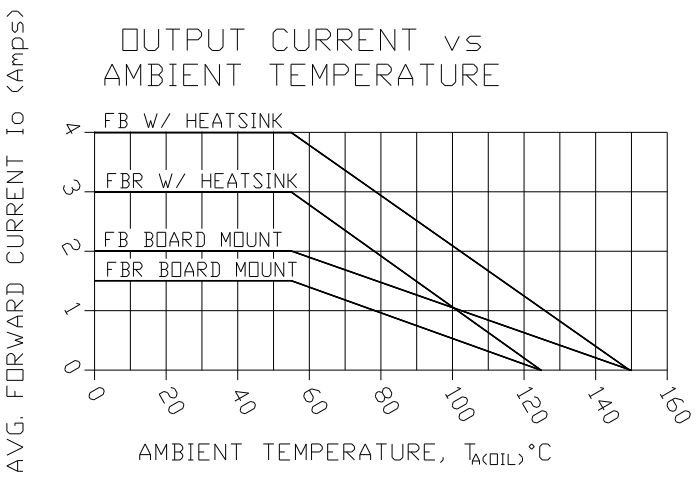
NOTES: It is recommended that a proper heat sink be used on the terminals of this device between the body and the soldering point to prevent damage from excess heat.

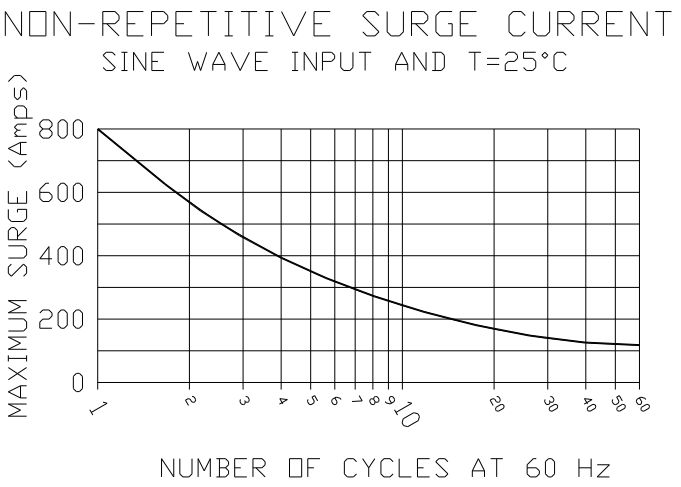
EDI reserves the right to change these specifications at any time without notice.

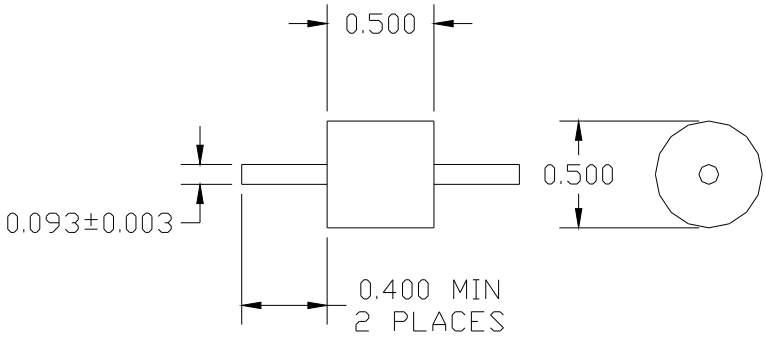
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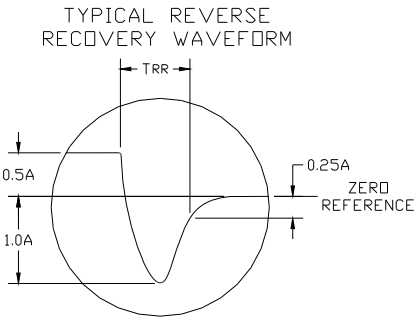


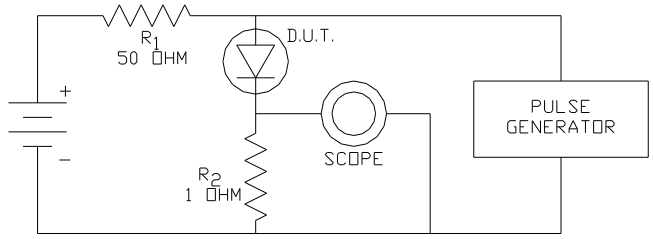




NOTE: Maximum lead and terminal temperature for soldering: 1/4 inch from case, for 5 seconds at 250°C

TEST CIRCUIT





R1, R2 NON-INDUCTIVE RESISTORS
PULSE GENERATOR - HP 214 OR EQUIVELENT
IKC REP RATE - 10 μSEC. PULSE WIDTH
ADJUST PULSE AMPLITUDE FOR PEAK IR

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