



## 5A SURFACE MOUNT SCHOTTKY BRIDGE RECTIFIER

### FEATURES:

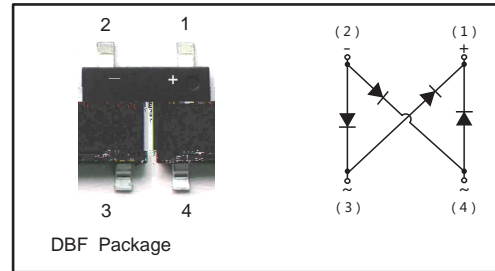
- Glass Passivated Chip Junction
- Reverse Voltage - 100 V
- Forward Current - 5.0 A
- High Surge Current Capability
- Designed for Surface Mount Application

### MECHANICAL DATA

- Case: DBF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 233.7mg 0.00824oz

### PINNING

PIN	DESCRIPTION
1	Output Anode ( + )
2	Output Cathode ( - )
3	Input Pin ( ~ )
4	Input Pin ( ~ )



### Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

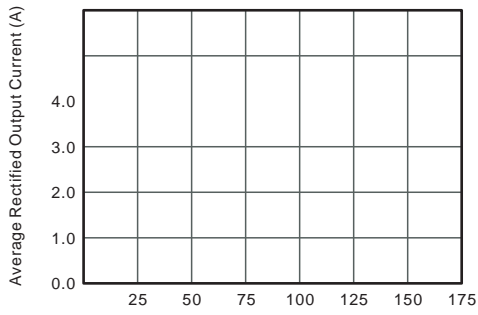
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	KDBF510	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	100	V
Maximum RMS voltage	$V_{RMS}$	70	V
Maximum DC Blocking Voltage	$V_{DC}$	100	V
Average Rectified Output Current	$I_O$	5.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	80	A
Maximum Forward Voltage @ $I_F=3A$ @ $I_F=5A$	$V_F$	0.8(TYP) 0.86	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_A=25\text{ }^\circ\text{C}$	$I_R$	0.3	m
Typical Junction Capacitance ( Note1 )	$C_j$	300	pF
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 ~ +150	°C

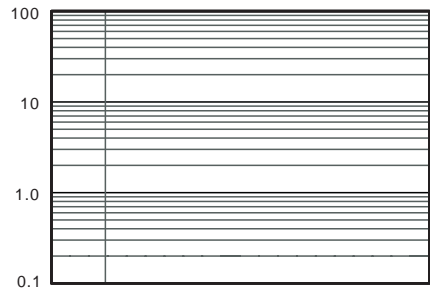
Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

2. Mounted on glass epoxy PC board with 4×1.5"×1.5" ( 3.81×3.81 cm ) copper pad.

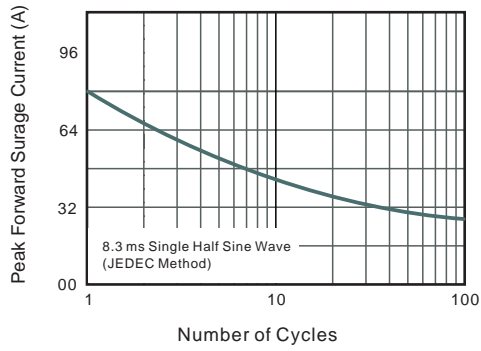
**Fig.1 Average Rectified Output Current Derating Curve**



**Fig.2 Typical Reverse Characteristics**



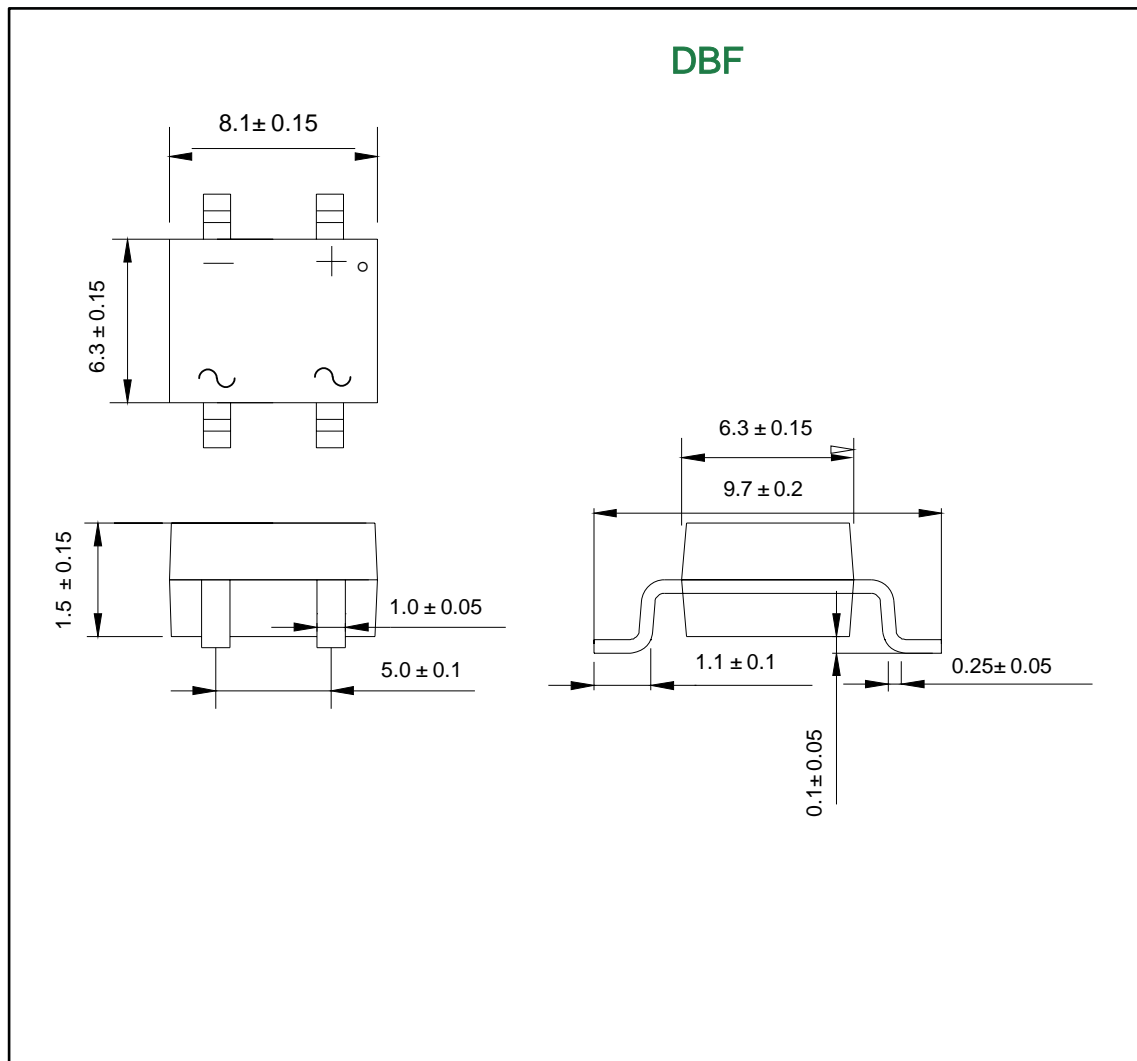
**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**





## PACKAGE OUTLINE

Plastic surface mounted package; 4 leads



The recommended mounting pad size