



5A SURFACE MOUNT LOW VF SCHOTTKY BRIDGE RECTIFIER

**FEATURES:**

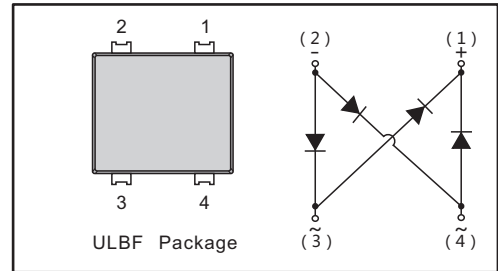
- Reverse Voltage - 60 V
- Forward Current - 5.0 A
- Low power loss, high efficiency
- High Surge Current Capability
- For use in low voltage ,high frequency inverters, free wheeling, and polarity protection applicltons
- Designed for Surface Mount Application

**MECHANICAL DATA**

- Case: ULBF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.461g / 0.0163oz

**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	KMB560L	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	60	V
Maximum RMS voltage	$V_{RMS}$	42	V
Maximum DC Blocking Voltage	$V_{DC}$	60	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)	$I_{FSM}$	100	A
Maximum Forward Voltage @ $I_F=3A$ @ $I_F=5A$	$V_F$	0.45(TYP) 0.59	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_A=25\text{ }^\circ\text{C}$	$I_R$	0.3	mA
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.



Fig.1 Average Rectified Output Current Derating Curve

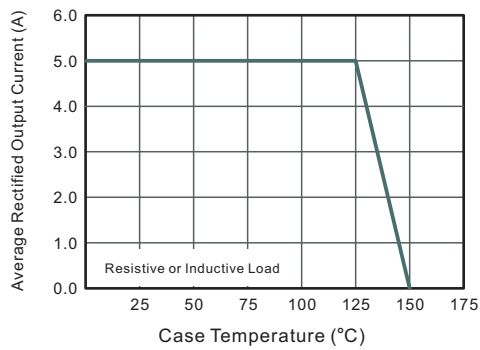


Fig.2 Typical Reverse Characteristics

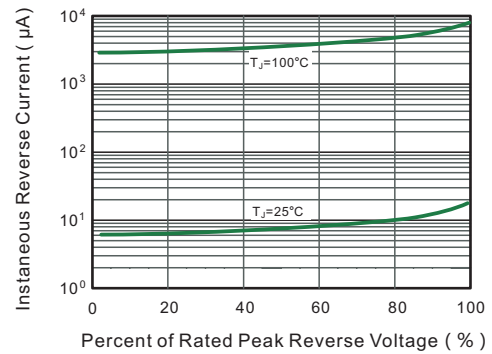


Fig.3 Typical Instantaneous Forward Characteristics

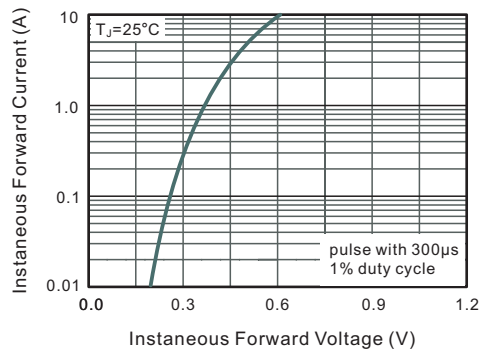


Fig.4 Typical Junction Capacitance

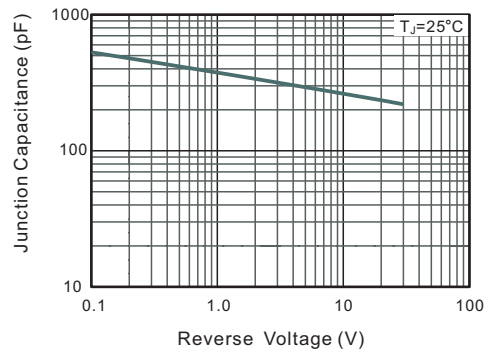
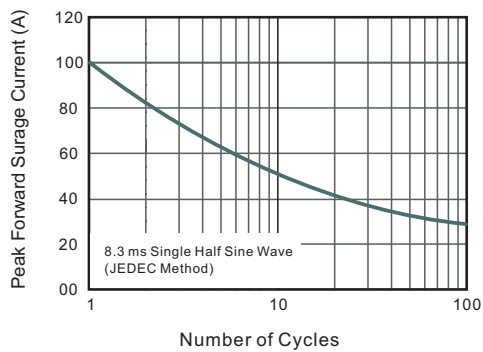


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

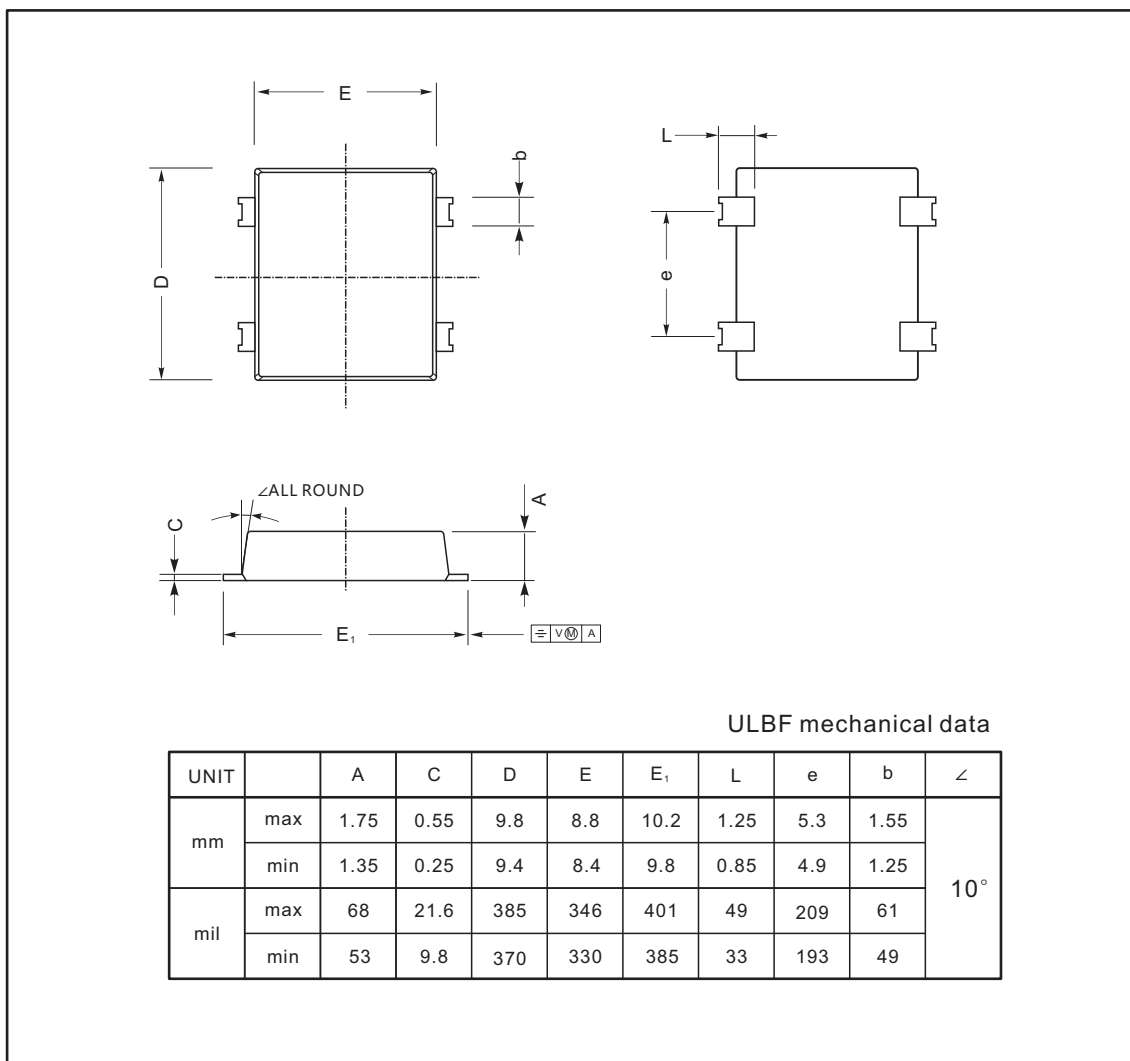




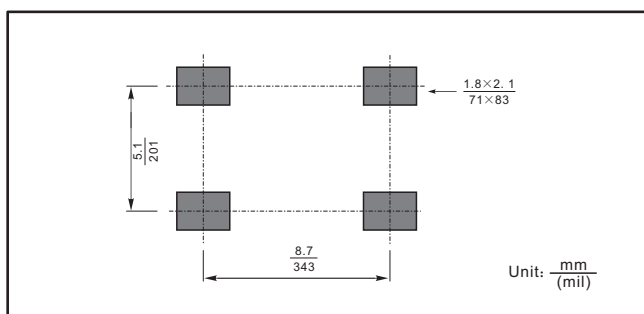
PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

ULBF



The recommended mounting pad size



Marking

Type number	Marking code
KMB560L	KMB560L