5A SURFACE MOUNT SCHOTTKY BRIDGE RECTIFIER
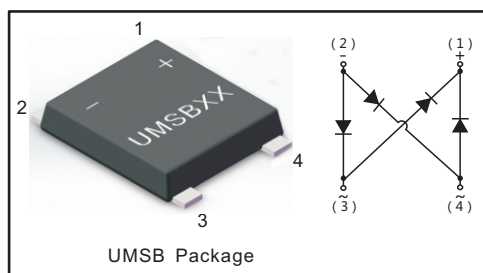
FEATURES:

• Glass Passivated Chip Junction

• Reverse Voltage - 60 V

• Forward Current - 5.0 A

• High Surge Current Capability

• Designed for Surface Mount Application

MECHANICAL DATA

• Case: UMSB

• 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 (~)

UMSB Package

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	MSB56L	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}	80	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 °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.

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

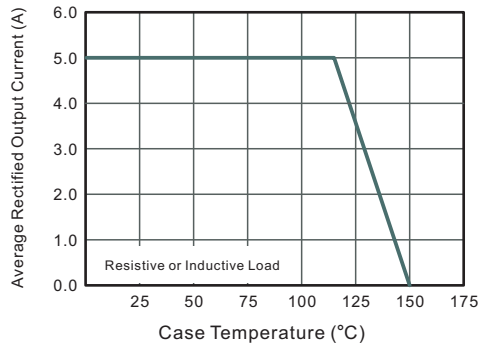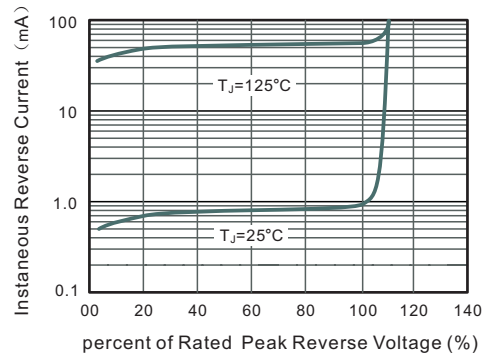### Fig.1 Average Rectified Output Current Derating Curve

Average Rectified Output Current (A) vs Case Temperature (℃)

Resistive or Inductive Load

Fig.2 Typical Reverse Characteristics

Instaneous Reverse Current (mA) vs percent of Rated Peak Reverse Voltage (%)

$T_J=125℃$

$T_J=25℃$

Fig.3 Typical Instaneous Forward Characteristics

Instaneous Forward Current (A) vs Instaneous Forward Voltage (V)

$T_J=25℃$

pulse with 300μs
1% duty cycle

Fig.4 Typical Junction Capacitance
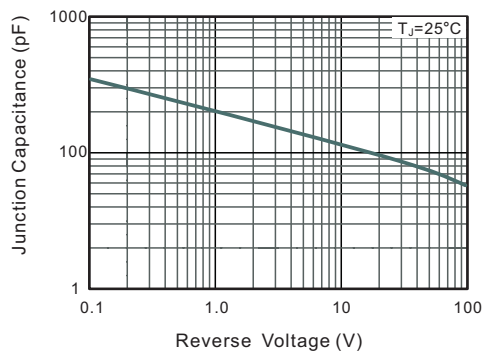
Junction Capacitance (pF) vs Reverse Voltage (V)

$T_J=25℃$
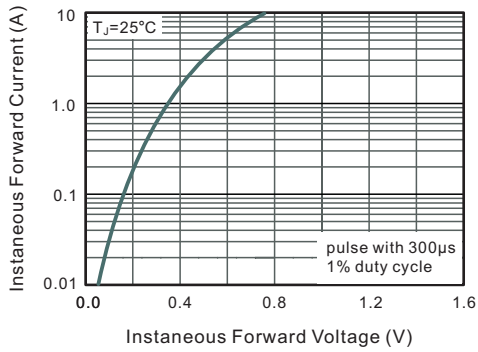
Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

Peak Forward Surage Current (A) vs Number of Cycles

8.3 ms Single Half Sine Wave
(JEDEC Method)

PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

UMSB

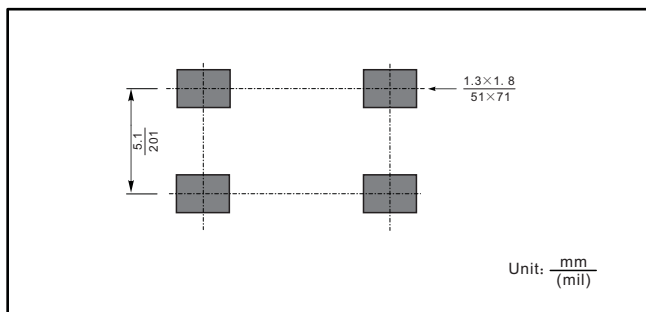UMSB mechanical data

UNIT		A	C	D	E	E₁	L	e	b	∠
mm	max	1.5	0.29	7.0	7.6	8.9	1.6	5.3	1.15	10°
	min	1.3	0.17	6.2	7.1	8.4	1.0	4.9	0.95	
mil	max	59	12	276	299	350	55	209	45	
	min	51	7	244	280	331	31.5	193	37	
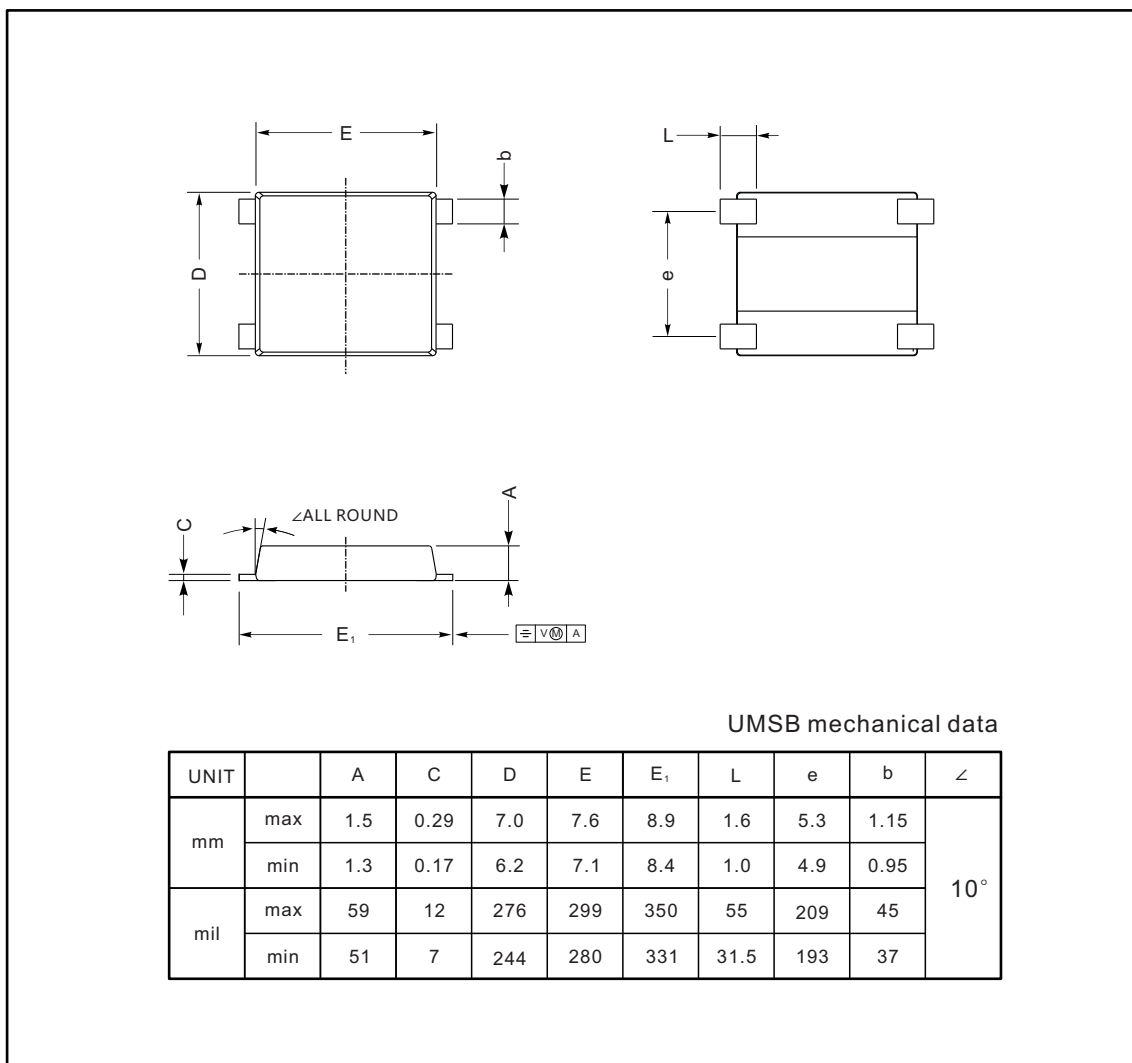
The recommended mounting pad size

$\frac{1.3 \times 1.8}{51 \times 71}$

$\frac{5.1}{201}$

Unit: $\frac{mm}{(mil)}$

Marking

Type number	Marking code
MSB56L	SS56L

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