

# TD4UF40M

## Surface Mount Fast Recovery Bridge Rectifier Reverse Voltage - 1000 V Forward Current - 4 A

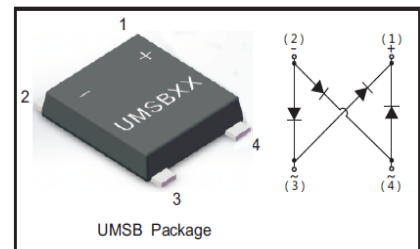
### Features

- Glass passivated chip junction
- Fast reverse recovery time
- Designed for Surface Mount Application

### Mechanical Data

- Case: Molded plastic, UMSB
- Terminals: solderable per MIL-STD-750, Method 2026

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



### Absolute Maximum Ratings and Characteristics

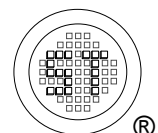
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbols	Value	Units
	Marking	UMB40M	-
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	1000	V
Maximum RMS Voltage	$V_{RMS}$	700	V
Maximum DC Blocking Voltage	$V_{DC}$	1000	V
Average Rectified Output Current (at $T_C = 115^\circ\text{C}$ )	$I_{F(AV)}$	4	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 at 4 A	$V_F$	1.6	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	5	$\mu\text{A}$
DC Blocking Voltage		100	
Typical Junction Capacitance <sup>1)</sup>	$C_j$	50	pF
Typical Thermal Resistance <sup>2)</sup>	$R_{\theta JA}$	40	$^\circ\text{C}/\text{W}$
Maximum Reverse Recovery Time <sup>3)</sup>	$t_{rr}$	75	ns
Operating Junction and Storage Temperature Range	$T_j, T_{stg}$	- 55 to + 150	$^\circ\text{C}$

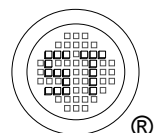
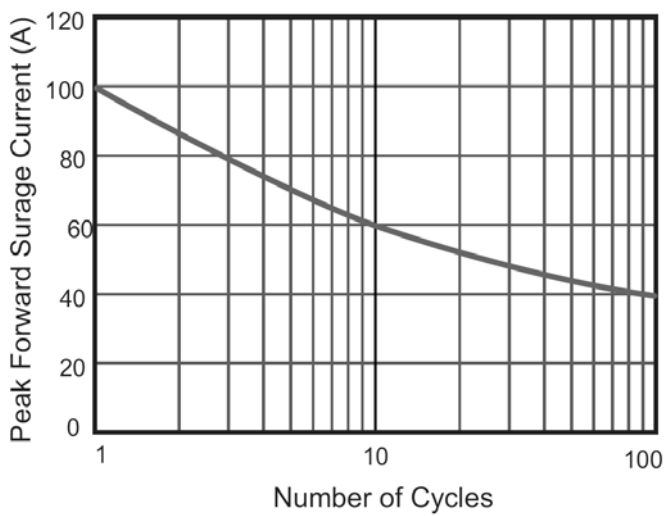
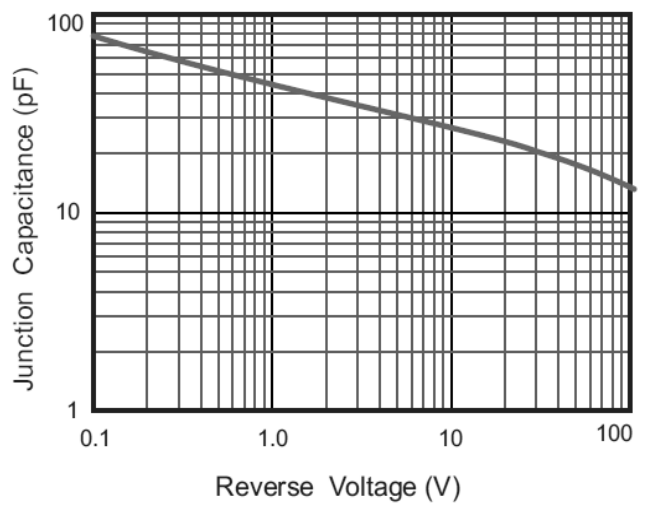
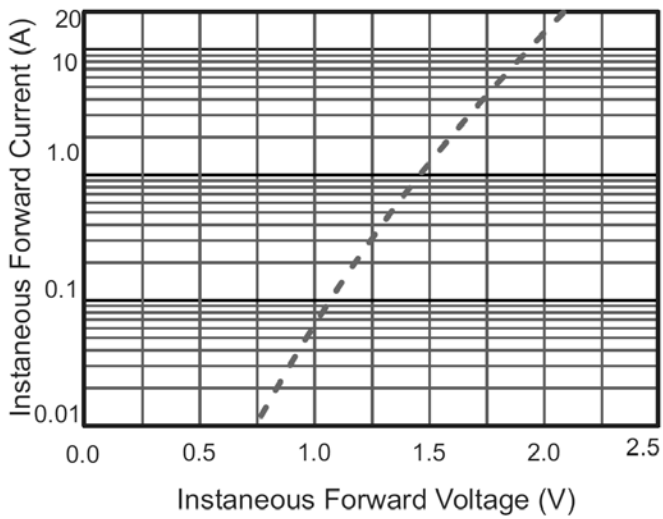
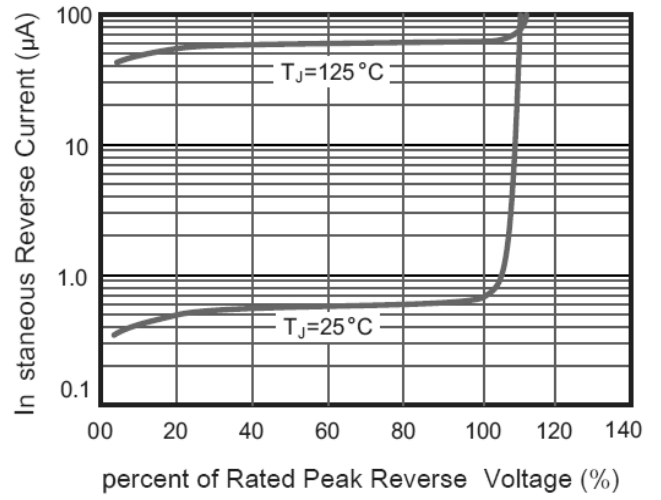
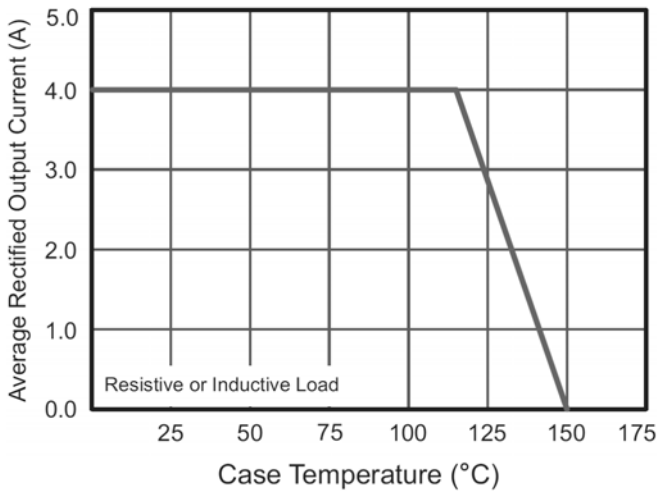
<sup>1)</sup> Measured at 1 MHz and applied reverse voltage of 4 V D.C.

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

<sup>3)</sup> Measured with  $I = 0.5 \text{ A}$ ,  $I_R = 1 \text{ A}$ ,  $I_{rr} = 0.25 \text{ A}$ .



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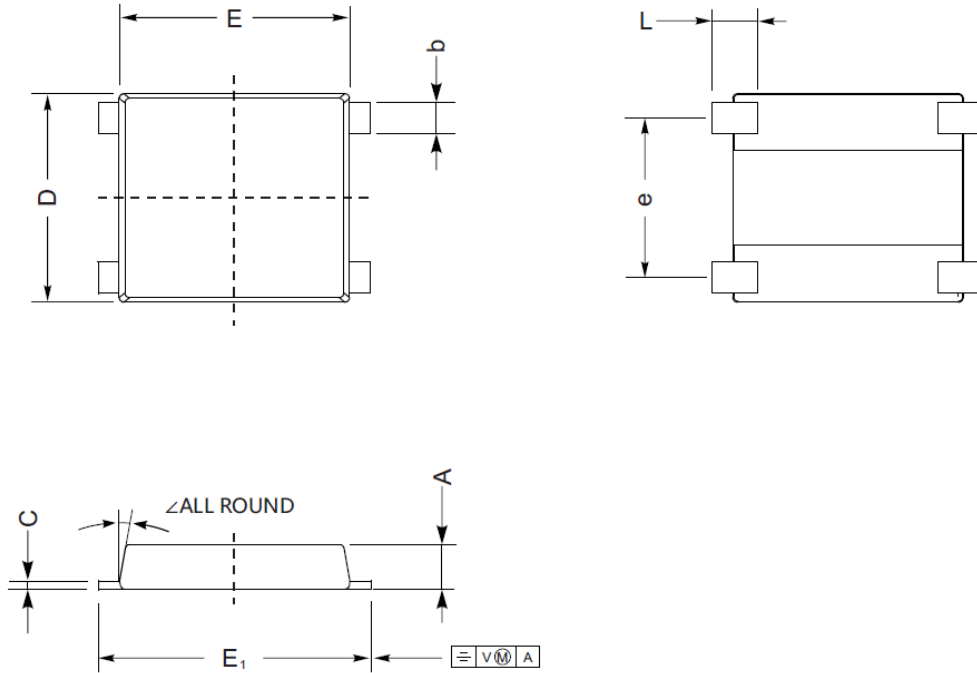


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## PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

UMSB



UNIT	A	C	D	E	E <sub>1</sub>	L	e	b	$\angle$
mm	1.5	0.29	7	7.6	8.9	1.6	5.3	1.15	10°
	1.3	0.17	6.2	7.1	7.9	1	4.9	0.95	

