

MSB40B-MSB40M

Rev.A May.-2017

/ Descriptions

4.0A

UMSB

4.0A Surface Mount Glass Passivated Bridge Rectifier,UMSB thin package.

/ Features

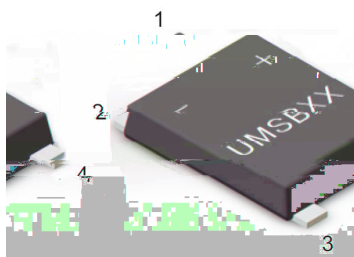
100V~1000V

4.0A

Glass Passivated Chip Junction, High Surge Current Capability, Reverse Voltage :100 to 1000V, Forward Current: 4.0A, Designed for Surface Mount Application. HF product.

/ Applications

General purpose.



/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating						Unit
		MSB40B	MSB40D	MSB40G	MSB40J	MSB40K	MSB40M	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Average Rectified Output Current	I_o	4.0						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	95						A
Typical Junction Capacitance (Note1)	C_i	50						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. P.C.B. mounted with 4x1.5 x1.5 (3.81x3.81cm) copper pad areas.

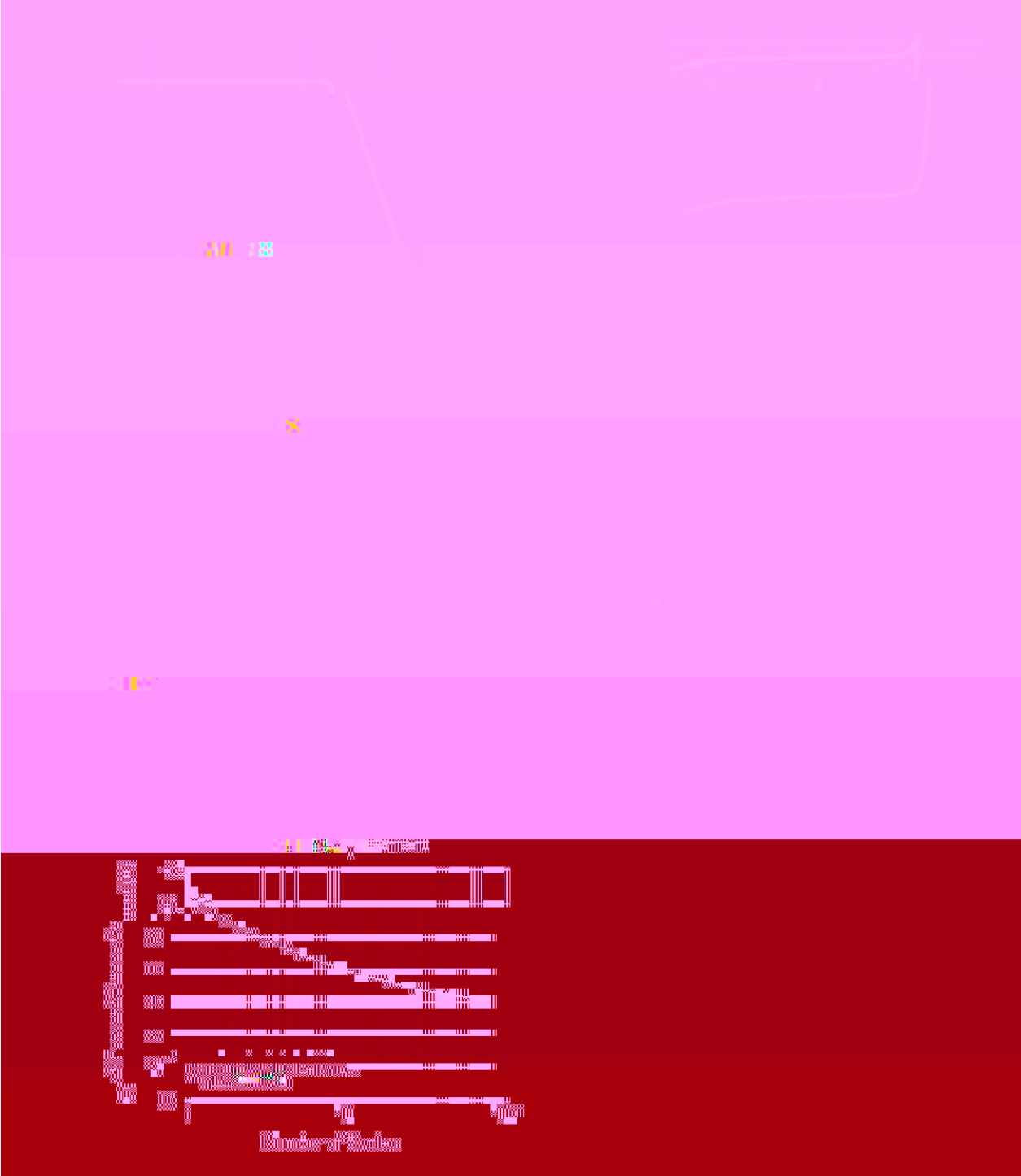
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Rating	Unit
Forward Voltage per element	V_F	$I_F=3.0A$	1.1	V
Maximum DC Reverse Current at Maximum DC Blocking Voltage	I_R	$T_a=25^{\circ}C$	5.0	μA
		$T_a=125^{\circ}C$	100	

/ Electrical Characteristic Curve

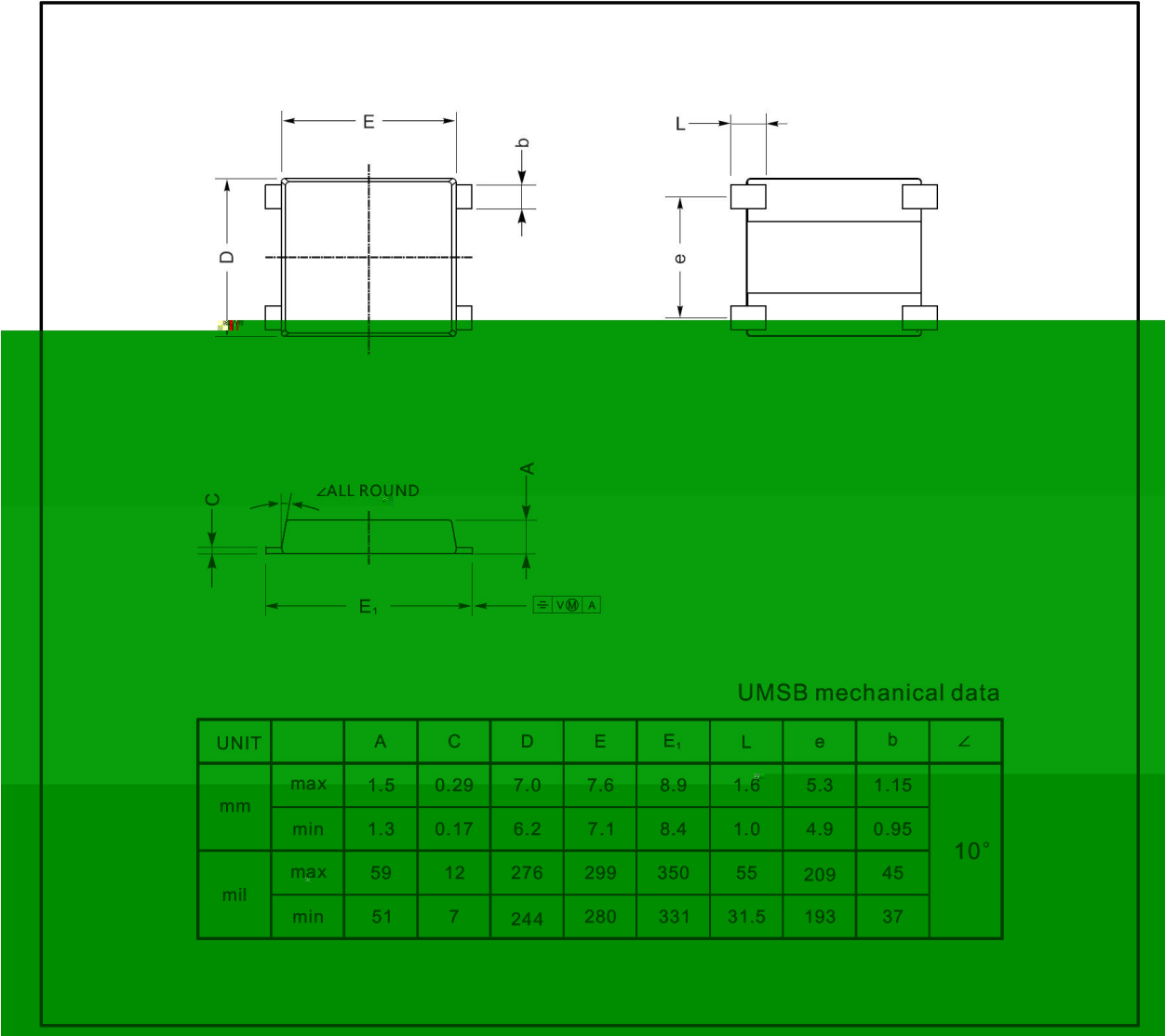
Fig.1 Average Rectified Output Current

Fig.2 Typ



/ Package Dimensions

UMSB





/ Marking Instructions

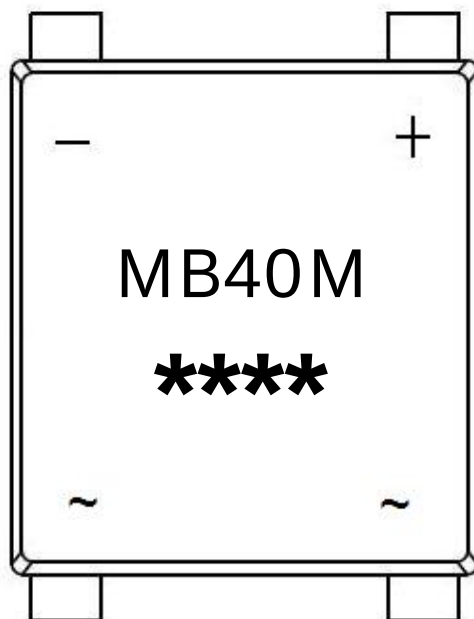
Marking Instructions

Marking code
MSB40B
MSB40D
MSB40G
MSB40J
MSB40K
MSB40M

Type number	Mark
MSB40B	MSB40B
MSB40D	MSB40D
MSB40G	MSB40G
MSB40J	MSB40J
MSB40K	MSB40K
MSB40M	MSB40M



/ Marking Instructions



MB40M

1

3

Note:

MB40M Product Type Code

**** Lot No. Code The 1st means:YM Code The last 3 means:little Lot
No Code

