Features

- Glass Passivated Chip Junction
- Reverse Voltage 50 to 1000V
- Forward Current 4.0A
- High Surge Current Capavility
- Designed for Surface Mount Application



UMSB

Mechanical Data

- Case:UMSB
- Terminals:Solderable per MIL-STD-750, Method 2026
- Approx.Weight: 0.234g/ 0.00825oz

Maximum Ratings and Electrical Characteristics

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

Type Number	MSB40A	MSB40B	MSB40D	MSB40G	MSB40J	MSB40K	МЅВ40М	UNIT
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current						•		
at Ta=40°C(Note 1)		4.0						Α
Peak Forward Surge Current, 8.3 ms single half sine-wave		120						
superimposed on rated load (JEDEC method)		120						Α
I ² t Rating for Fusing (1ms < t < 8.3ms)		60						
Maximum Forward Voltage Drop per Bridge Element at 4.0A		1.1						V
Maximum DC Reverse Current Ta=25°C		5.0						μΑ
at Rated DC Blocking Voltage Ta=125°C		200						μΑ
Typical Thermal Resistance R JA (Note 2)		50						°C/W
Operating Temperature Range, T _J		-55 — +150						Ç
Storage Temperature Range, Tstg		-55 —+150						°C

NOTES: 1. Mounted on P.C. Board.

2. Thermal Resistance Junction to Ambient.



Rating And Characteristics Curves

FIG.1-TYPICAL FORWARD CURRENT

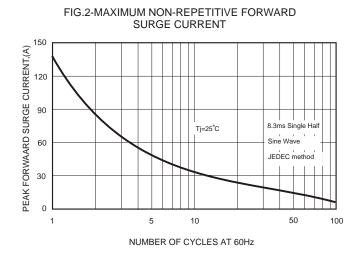
DERATING CURVE

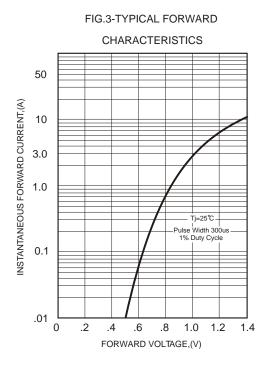
(\$\frac{4}{5}\$ 6.0

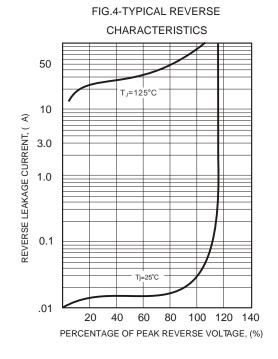
| \$\frac{4}{5}\$ 5.0
| \$\frac{1}{5}\$ 5.0
| \$\frac{1}{5}\$ 6.0
| \$\frac{1

5 50 75 100 125 150 AMBIENT TEMPERATURE (°C)

0

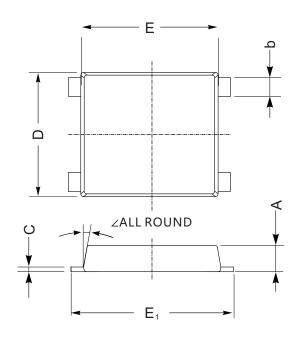


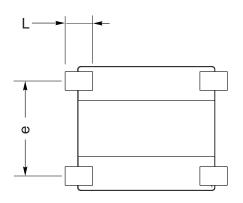






UMSB Package Outline Dimensions





UNIT		А	С	D	Е	E₁	L	е	b	∠	
mm	max	1.5	0.29	7.0	7.6	8.9	1.6	5.3	1.15		
	min	1.3	0.17	6.2	7.1	8.4	1.0	4.9	0.95	10°	
mil	max	59	12	276	299	350	55	209	45	10°	
	min	51	7	244	280	331	31.5	193	37		

MSB40A~MSB40M SURFACE MOUNT VRIDGE RECTIFIERS

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