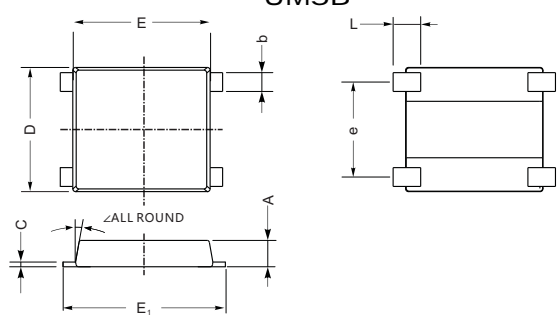


4.0 AMP SURFACE MOUNT BRIDGE RECTIFIERS

<p>FEATURES:</p> <ul style="list-style-type: none"> • Glass Passivated Chip Junction • Reverse Voltage - 50 to 1000 V • Forward Current - 4.0 A • High Surge Current Capability • Designed for Surface Mount Application <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case: UMSB • Terminals: Solderable per MIL-STD-750, Method 2026 • Approx. Weight: 0.234g / 0.00825oz <p>Marking</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="padding: 2px;">Marking code</td> </tr> <tr> <td style="padding: 2px;">MB40A --- MB40M</td> </tr> </table>	Marking code	MB40A --- MB40M	<div style="text-align: center;"> <p>VOLTAGE RANGE</p> <p>50 to 1000 Volts</p> <p>CURRENT</p> <p>4.0 Ampere</p> </div> <div style="text-align: center; margin-top: 10px;"> <p>UMSB</p>  </div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>UNIT</th> <th></th> <th>A</th> <th>C</th> <th>D</th> <th>E</th> <th>E₁</th> <th>L</th> <th>e</th> <th>b</th> <th>∠</th> </tr> </thead> <tbody> <tr> <td rowspan="2">mm</td> <td>max</td> <td>1.5</td> <td>0.29</td> <td>7.0</td> <td>7.6</td> <td>8.9</td> <td>1.6</td> <td>5.3</td> <td>1.15</td> <td rowspan="4" style="text-align: center; vertical-align: middle;">10°</td> </tr> <tr> <td>min</td> <td>1.3</td> <td>0.17</td> <td>6.2</td> <td>7.1</td> <td>8.4</td> <td>1.0</td> <td>4.9</td> <td>0.95</td> </tr> <tr> <td rowspan="2">mil</td> <td>max</td> <td>59</td> <td>12</td> <td>276</td> <td>299</td> <td>350</td> <td>55</td> <td>209</td> <td>45</td> </tr> <tr> <td>min</td> <td>51</td> <td>7</td> <td>244</td> <td>280</td> <td>331</td> <td>31.5</td> <td>193</td> <td>37</td> </tr> </tbody> </table>	UNIT		A	C	D	E	E ₁	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
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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise 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	MSB40M	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	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)								9.5	A
I ² t Rating for Fusing (1ms < t < 8.3ms)								60	A ² S
Maximum Forward Voltage Drop per Bridge Element at 4.0A								1.1	V
Maximum DC Reverse Current Ta=25°C								5.0	µA
at Rated DC Blocking Voltage Ta=125°C								200	µA
Typical Thermal Resistance R _{JA} (Note 2)								50	°C/W
Operating Temperature Range, T _J								-55 — +150	°C
Storage Temperature Range, T _{stg}								-55 — +150	°C

NOTES: 1. Mounted on P.C. Board.
 2. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

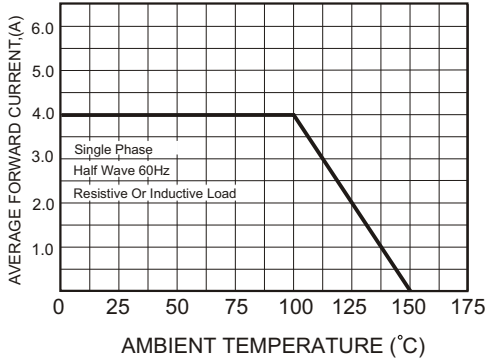


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

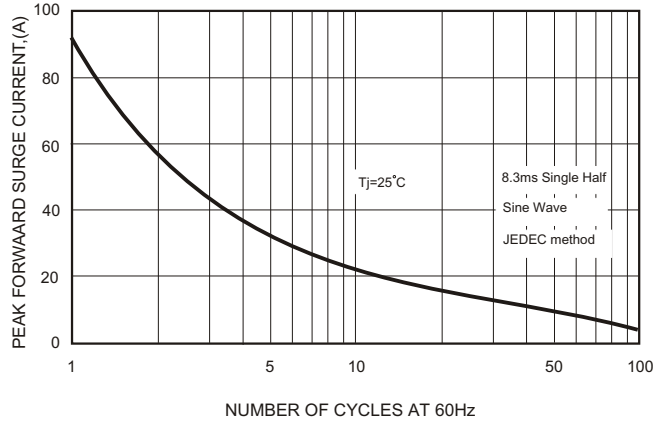


FIG.3-TYPICAL FORWARD CHARACTERISTICS

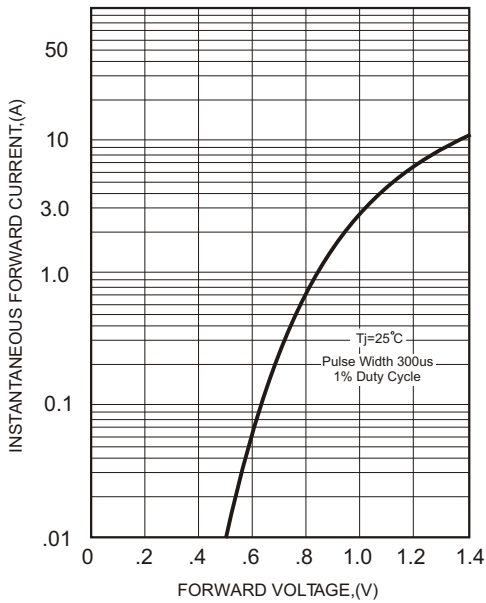
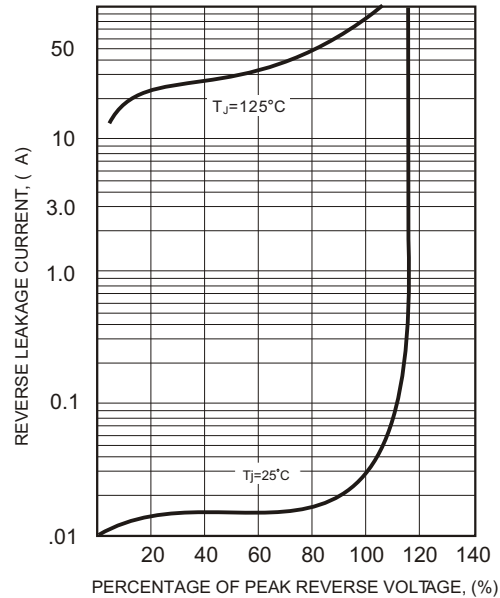


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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