MSB60A THRU MSB60M

MSB Plastic-Encapsulate Bridge Rectifier

Features

- Glass passivated chip
- Low reverse leakage current
- High surge current capability
- Reliable low cost construction utilizing molded plastic technique

Reverse Voltage
50-1000 V

Forward Current
6.0 A max

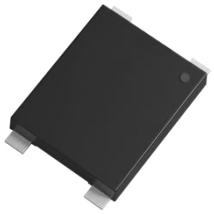
Applications

- General purpose use in AC/DC bridge full wave rectification

Mechanical Data

- Case：MSB
- Polarity symbols being marked on body
- Molding compound meets UL 94V-0 flammability rating
- RoHS-compliant,Solder plated, solderable per MIL-STD-750,Method 2026

Appearance Image



Marking

- MSB60(A~M)

Maximum Ratings @ Ta = 25℃ unless otherwise noted

PARAMETER	SYMBOL	UNIT	MSB60A	MSB60B	MSB60D	MSB60G	MSB60J	MSB60K	MSB60M
Repetitive peak reverse voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS voltage	V_{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V_{DC}	V	50	100	200	400	600	800	1000
Maximum average output current@60Hz sine wave, resistance load	$I_{F(AV)}$	A	6.0						
Peak forward surge current 8.3 ms single half sine wave superimposed on rated load	I_{FSM}	A	150						
Peak forward surge current 1.0 ms single half sine wave superimposed on rated load		A	300						
Current squared time @1ms≤t<8.3ms Tj=25℃，Rating of per diode	I^2t	A^2S	93.38						
Storage temperature	T_{stg}	℃	-55～+150						
Junction temperature	T_j	℃	-55～+150						

Electrical Characteristics @ Ta = 25℃ unless otherwise noted

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	MSB60A	MSB60B	MSB60D	MSB60G	MSB60J	MSB60K	MSB60M
Maximum instantaneous forward voltage	I_F=3.0A	V_F	V	1.0						
Maximum DC reverse currentat rated DC blocking voltage	V_R=V_{DC}, Tj=25℃	I_R	μA	5						
	V_R=V_{DC}, Tj=100℃	I_R		100						

Characteristic Curve (Typical)

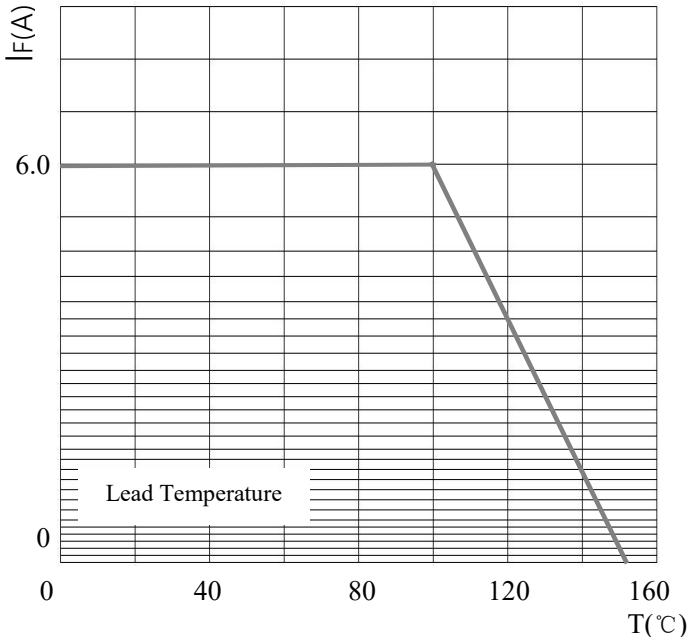


FIG1.Derating Curve For Output Rectified Current

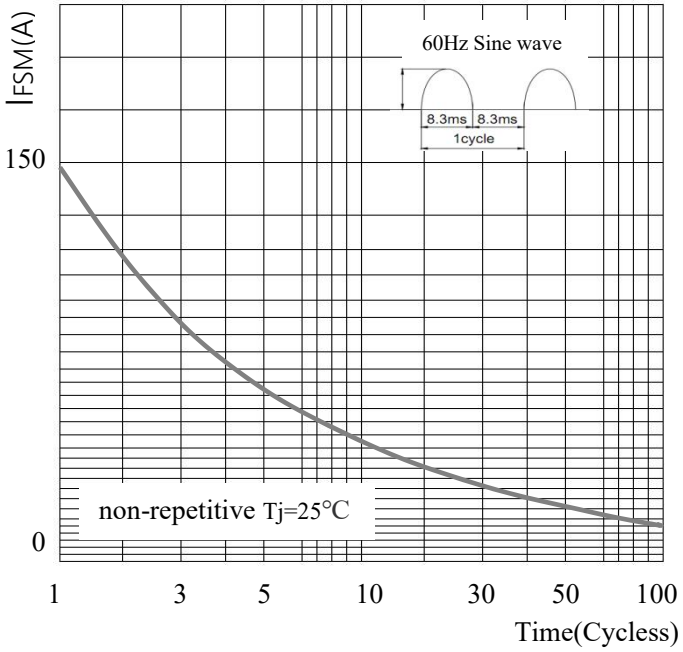


FIG2. Surge Forward Current Capability

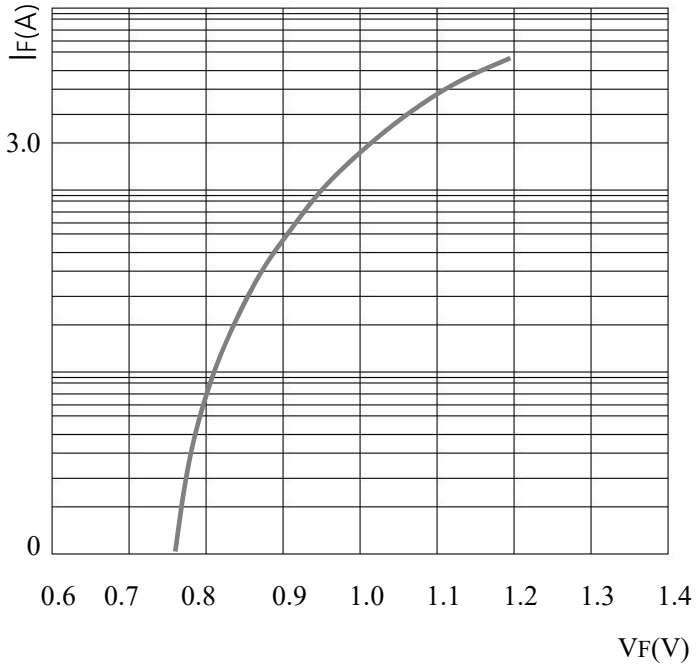


FIG3.Typical Forward Characteristics

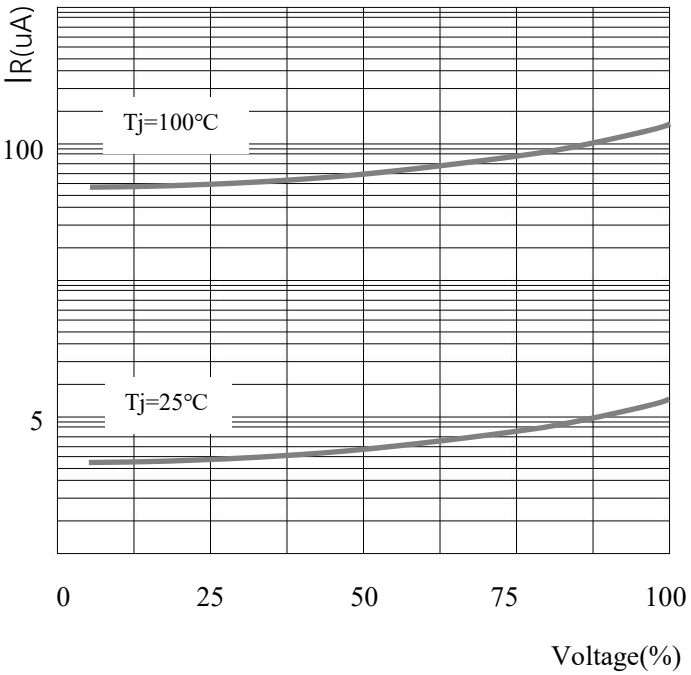


FIG4.Typical Reverse Characteristics

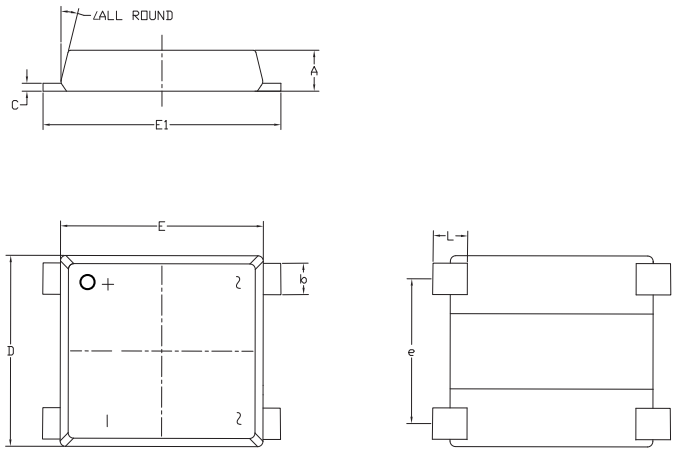
Marking and packet information



MB***: Product Type Code TOS: Brand Loge

Packaging information	
Reel	3000PCS
Carton	54000PCS
Rell Size	13"

MSB Package outline dimensions



Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	1.3	1.5	0.051	0.059
C	0.17	0.29	0.007	0.012
D	6.2	7.0	0.244	0.276
E	7.1	7.6	0.280	0.299
E1	8.4	8.9	0.331	0.350
L	1.0	1.6	0.032	0.055
e	4.9	5.3	0.193	0.209
b	0.95	1.15	0.037	0.045
θ	10°			

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