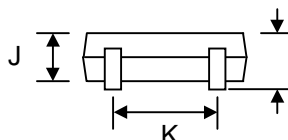
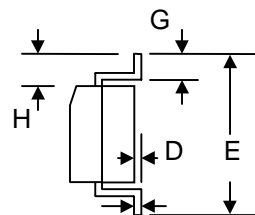
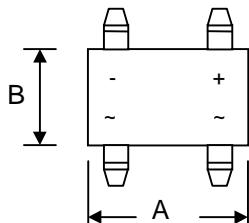


### Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage Application
- Plastic Case Material has UL Flammability Classification Rating 94V-O



### Mechanical Data

- Case: MB-S, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Weight: 0.22 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version**

MB-S		
Dim	Min	Max
A	4.50	4.95
B	3.60	4.10
C	0.15	0.35
D	—	0.20
E	6.40	7.00
G	0.50	1.10
H	1.30	1.70
J	2.30	2.70
K	2.30	2.70
L	—	3.00
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics @<sub>T<sub>A</sub></sub>=25°C unless otherwise specified

Characteristic	Symbol	KMB 12S	KMB 13S	KMB 14S	KMB 15S	KMB 16S	KMB 18S	KMB 110S	KMB 115S	KMB 120S	KMB 125S	Unit	
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	250	V	
Working Peak Reverse Voltage	V <sub>VRWM</sub>												
DC Blocking Voltage	V <sub>R</sub>												
RMS Reverse Voltage	V <sub>R(RMS)</sub>	14	21	28	35	42	56	70	105	140	175	V	
Average Rectified Output Current @ <sub>T<sub>L</sub></sub> = 90°C	I <sub>O</sub>	1.0										A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	30										A	
Forward Voltage @ <sub>I<sub>F</sub></sub> = 1.0A	V <sub>FM</sub>	0.50			0.70		0.85		0.90		0.92	V	
Peak Reverse Current @ <sub>T<sub>A</sub></sub> = 25°C	I <sub>RM</sub>	0.1										mA	
At Rated DC Blocking Voltage @ <sub>T<sub>A</sub></sub> = 100°C		20											
Typical Thermal Resistance (Note 1)	R <sub>θJL</sub> R <sub>θJA</sub>						10						°C/W
							50						
Typical Junction Capacitance	C <sub>j</sub>	110					30		110				pF
Operating Temperature Range	T <sub>j</sub>	-65 to +150										°C	
Storage Temperature Range	T <sub>STG</sub>	-65 to +150										°C	

Note: 1. Mounted on P.C. Board with 5.0mm<sup>2</sup> copper pad area.

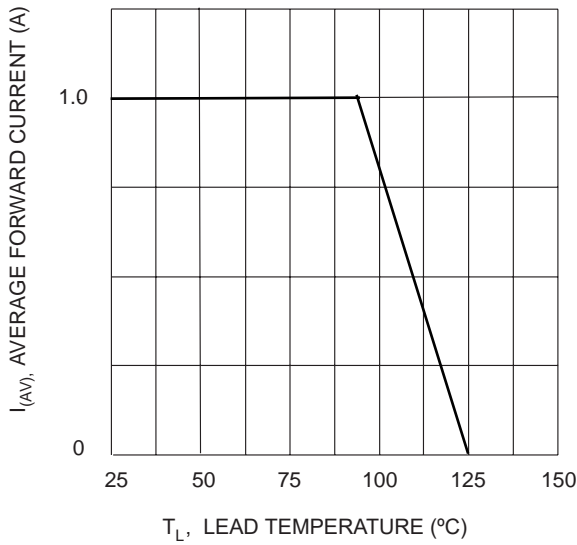


Fig. 1 Forward Current Derating Curve

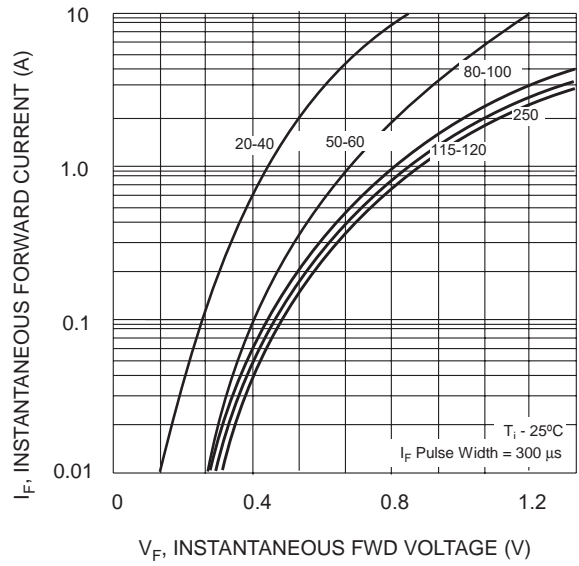


Fig. 2 Typ. Forward Characteristics

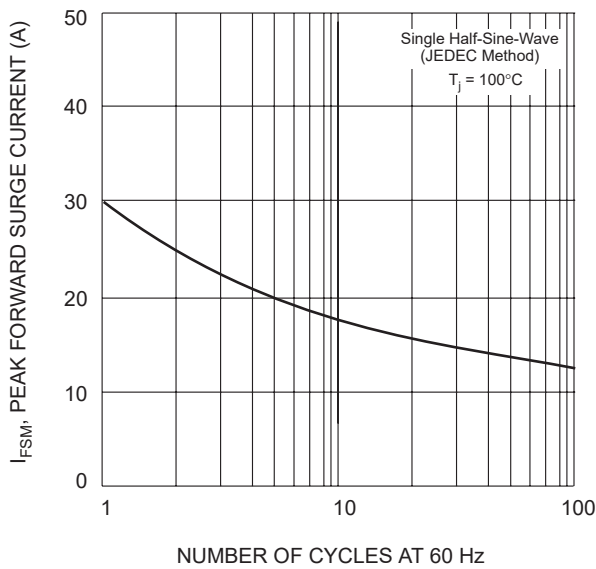


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

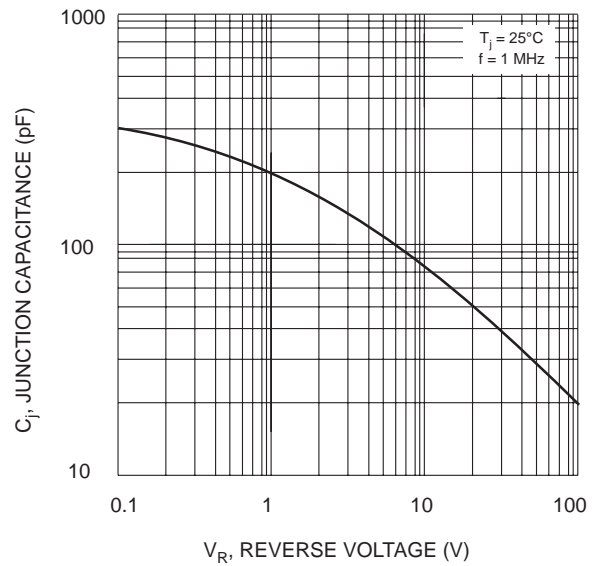


Fig. 4 Typical Junction Capacitance

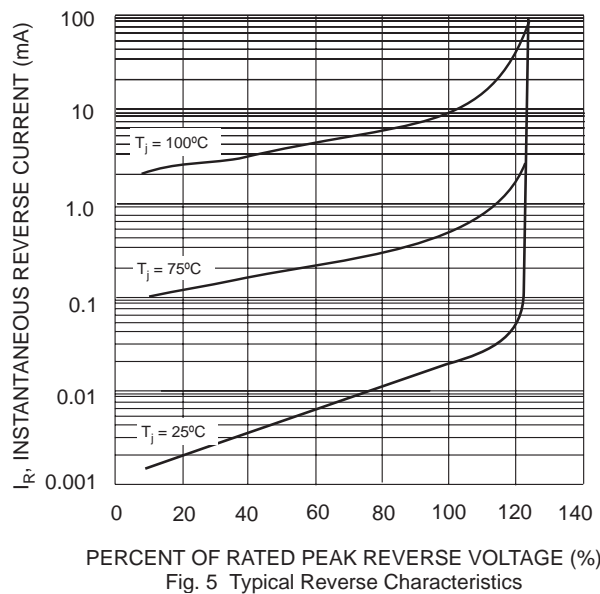


Fig. 5 Typical Reverse Characteristics