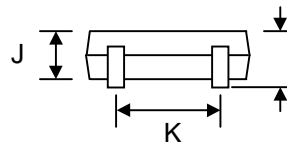
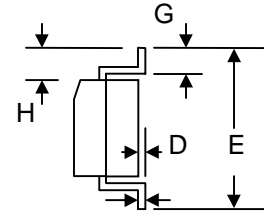
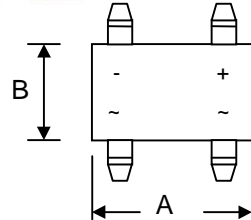


Features

- 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-F, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Weight: 0.134 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version**

MB-F		
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	1.20	1.60
K	2.30	2.70
L	—	1.80
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @_{T_A}=25°C unless otherwise specified

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

Note: 1. Mounted on P.C. Board with 5.0mm² copper pad area.

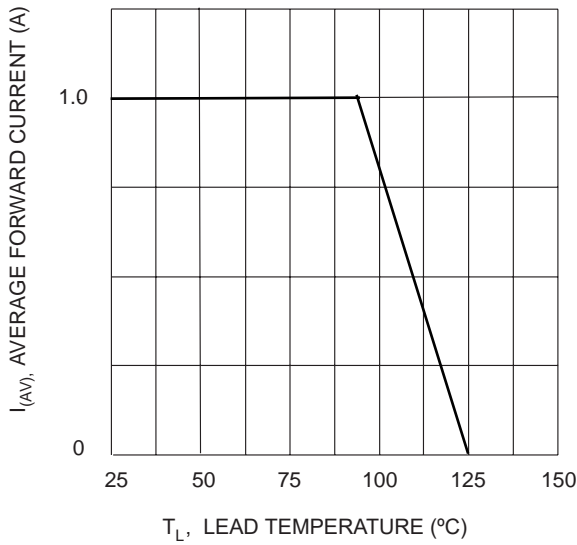


Fig. 1 Forward Current Derating Curve

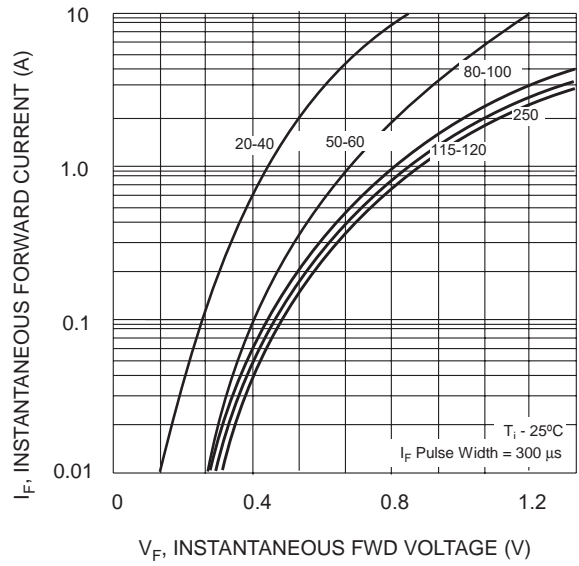


Fig. 2 Typ. Forward Characteristics

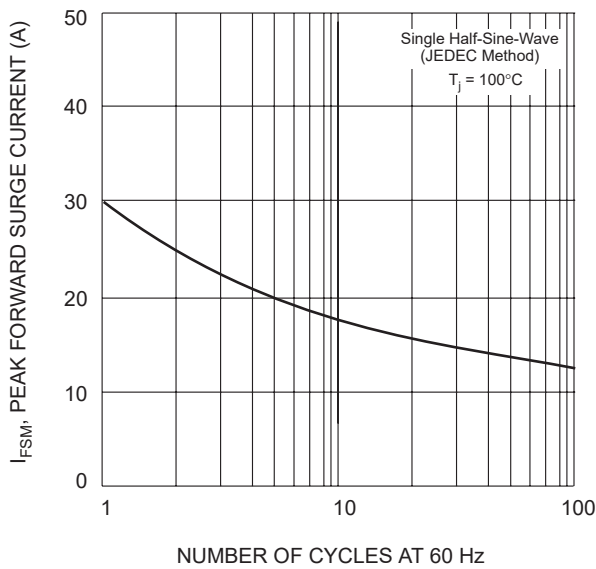


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

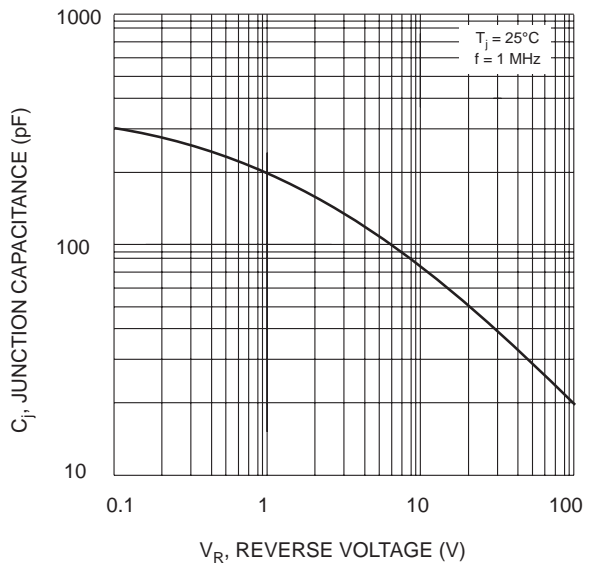


Fig. 4 Typical Junction Capacitance

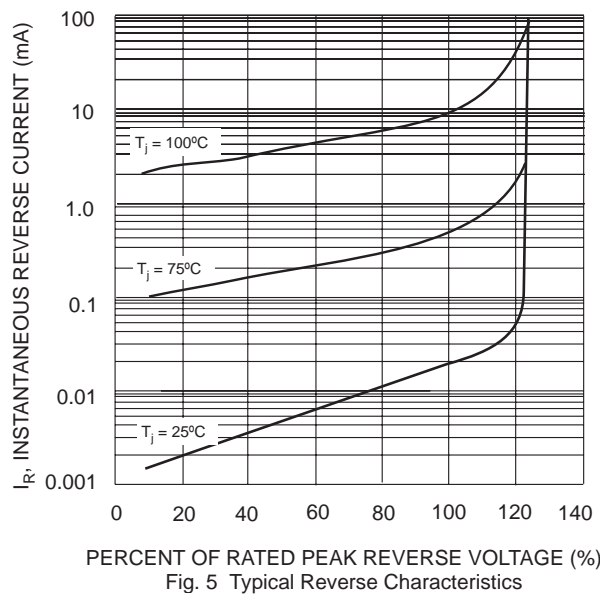


Fig. 5 Typical Reverse Characteristics