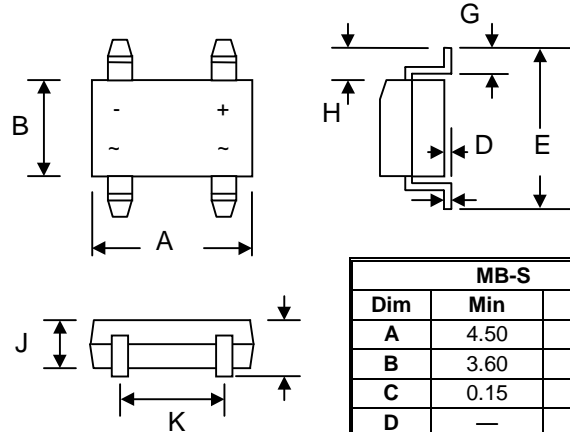


#### Features

- 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



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		

#### 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**

#### Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	KMB 32S	KMB 33S	KMB 34S	KMB 35S	KMB 36S	KMB 38S	KMB 310S	KMB 315S	KMB 320S	KMB 325S	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	250	V
Working Peak Reverse Voltage	$V_{RWM}$											
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 @ $T_L = 90^\circ\text{C}$	$I_O$	3.0										A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50										A
Forward Voltage @ $I_F = 3.0\text{A}$	$V_{FM}$	0.50		0.70		0.85		0.95		0.92		V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$	$I_{RM}$	0.1 20										mA
Typical Thermal Resistance (Note 1)	$R_{\theta JL}$ $R_{\theta JA}$	10 50										$^\circ\text{C/W}$
Typical Junction Capacitance	$C_j$	110					30		110			pF
Operating Temperature Range	$T_j$	-65 to +150										$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-65 to +150										$^\circ\text{C}$

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

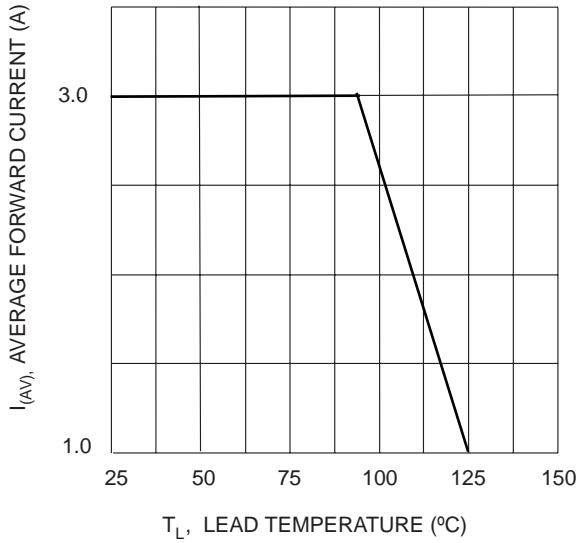


Fig. 1 Forward Current Derating Curve

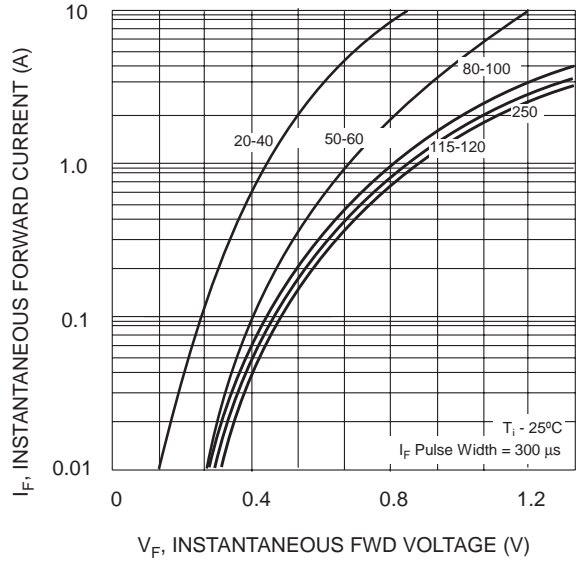


Fig. 2 Typ. Forward Characteristics

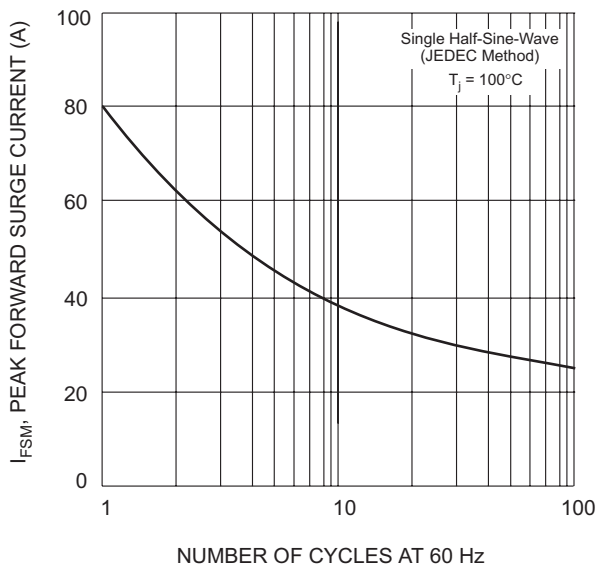


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

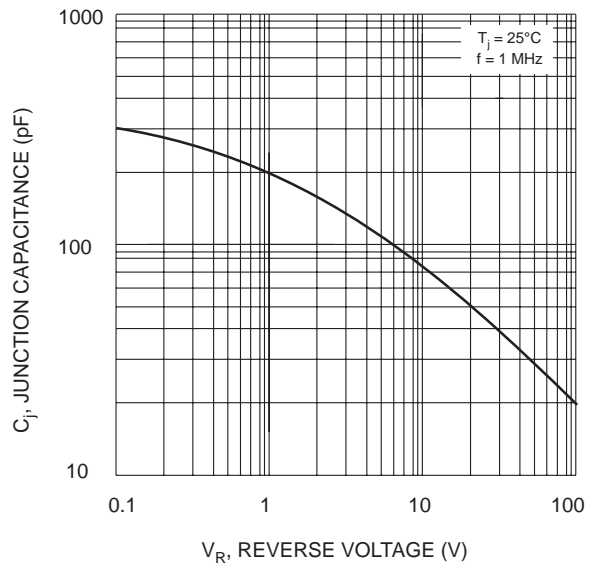


Fig. 4 Typical Junction Capacitance

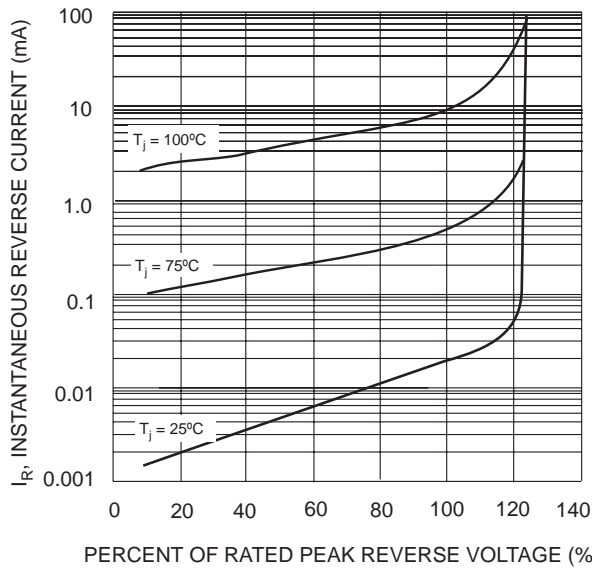


Fig. 5 Typical Reverse Characteristics