

KMB12F-KMB125F
SINGLE PHASE 1.0 AMP SURFACE MOUNT SCHOTTKY BRIDGE RECTIFIER

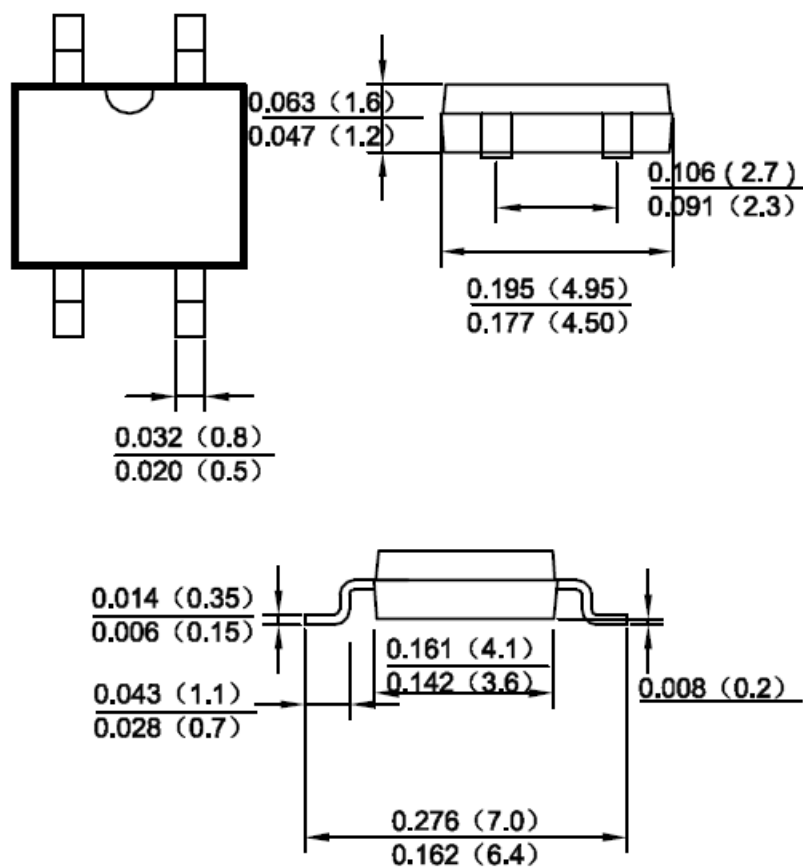
Features:

- Schottky Brier Chip
- Low Power Loss, High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 30A Peak
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Mechanical Data:

- Case: MB-F, Molded plastic
- Terminals: Plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting Position: Any
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version

Mechanical Dimensions: In Inches/mm



MBF

- China - Germany - Korea - Singapore - United States •
- <http://www.smc-diodes.com> - sales@smc-diodes.com •

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

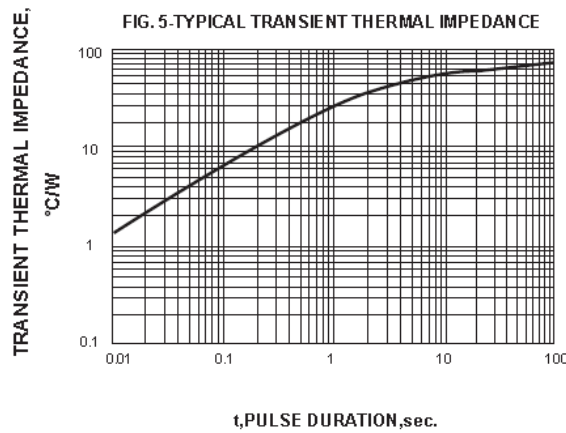
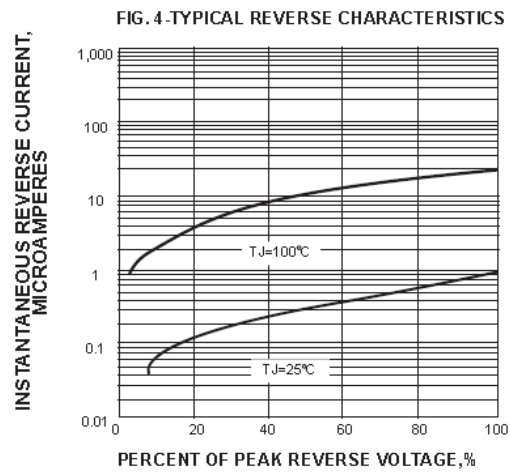
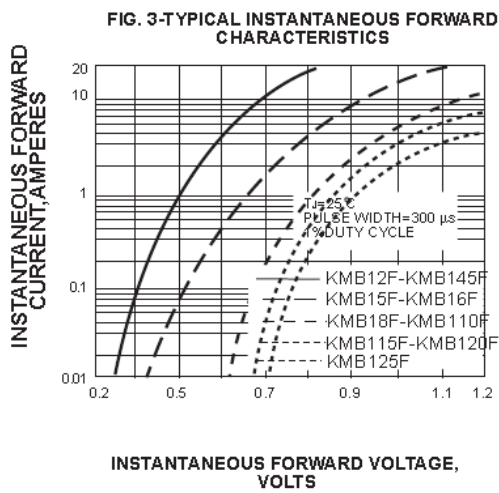
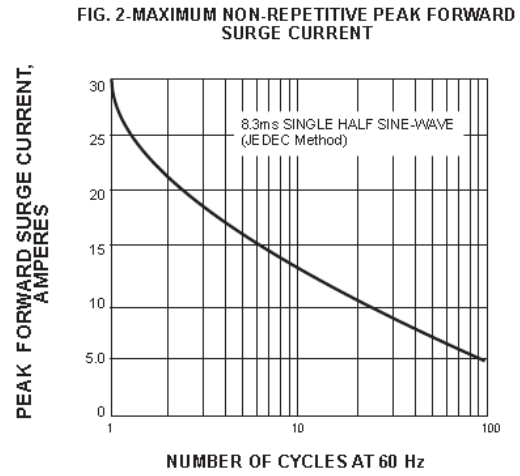
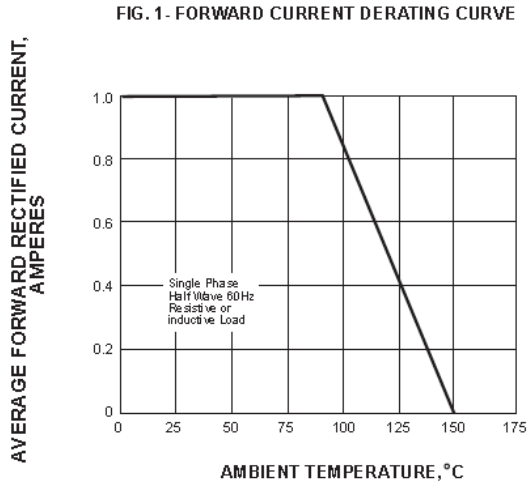
Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Type Number	Symbol	KMB 12F	KMB 13F	KMB 14F	KMB 145F	KMB 15F	KMB 16F	KMB 18F	KMB 110F	KMB 115F	KMB 120F	KMB 125F	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _{DC}	20	30	40	45	50	60	80	100	150	200	250	V
RMS Reverse Voltage	V _{RMS}	14	21	28	31	35	42	56	70	105	140	175	V
Average forward rectified output current (Note 1) @T _A = 90°C	I _O	1											A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30											A
I ² t Rating for Fusing (t < 8.3ms)	I ² t	3.735											A ² S
Forward Voltage (per element) @I _F = 1A	V _{FM}	0.55			0.7		0.85		0.90		0.92		V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	0.1 10							0.05 5				mA
Typical Junction Capacitance(per leg)	C _J	28											pF
Typical Thermal Resistance (per leg) (Note 2)	R _{θJA}	75											°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150											°C

 Note: 1. Mounted on glass epoxy PC board with 1.3mm² solder pad.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.





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