



KMB24F

Surface Mount Schottky Bridge Rectifiers

FEATURES

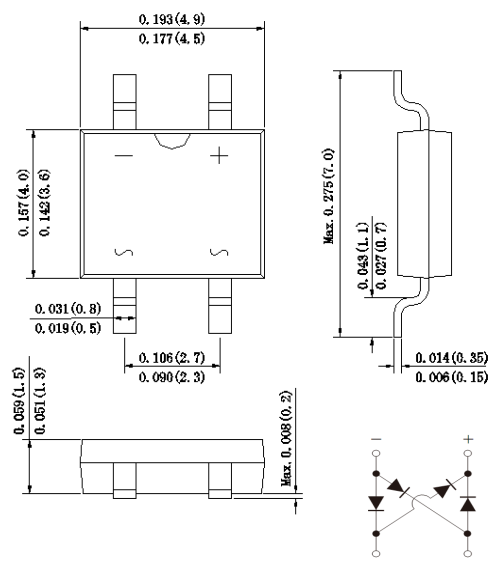
- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- Metal-Silicon junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed
250 C/10 seconds at terminals

Mechanical Data

- Case MBF
- **Terminals** : Solder plated, solderable per MIL-STD-750, Method 2026
- **Polarity** : Cathode line denotes the cathode end
- **Mounting Position** : Any

RoHS
COMPLIANT

MBF



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

CHARACTERISTICS	Symbols	KMB22F	KMB24F	KMB26F	KMB28F	KMB210F	KMB215F	KMB220F	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	150	200	V
Maximum RMS Bridge Input Voltage	V_{RMS}	14	28	42	56	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	150	200	V
Maximum Average Forward Rectified Current (Note1)	$I_{(AV)}$	2							A
Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	50							A
Maximum Forward Voltage at 2A	V_F	0.55	0.7	0.85	0.95				
Maximum DC Reverse Current $T_A=25^{\circ}C$ at Rated DC Blocking Voltage $T_A=125^{\circ}C$	I_R	0.5	0.2	50	20				
Typical Thermal Resistance	$R_{\theta JA}$	80							$^{\circ}C/W$
Operating Temperature Range	T_J	-55 to +150							$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150							$^{\circ}C$

NOTES: 1. Mounted on glass epoxy PC board with 1.31.3mm solder pad



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Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

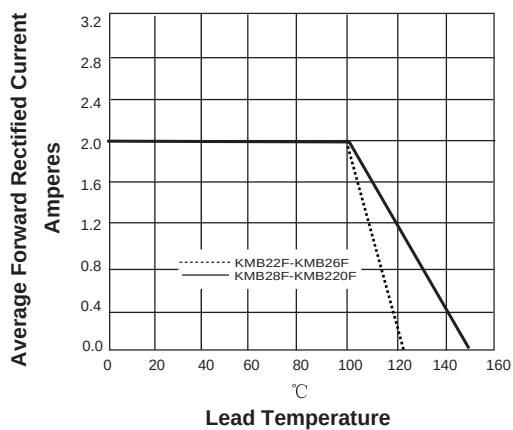


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

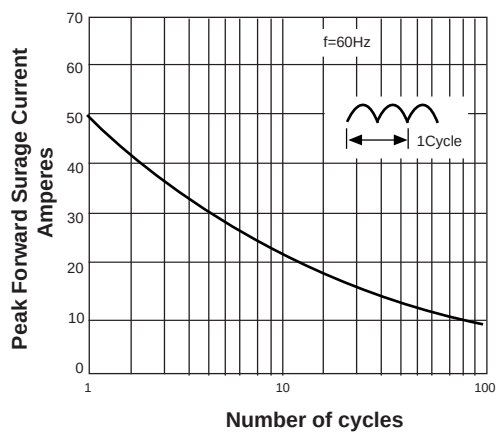


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

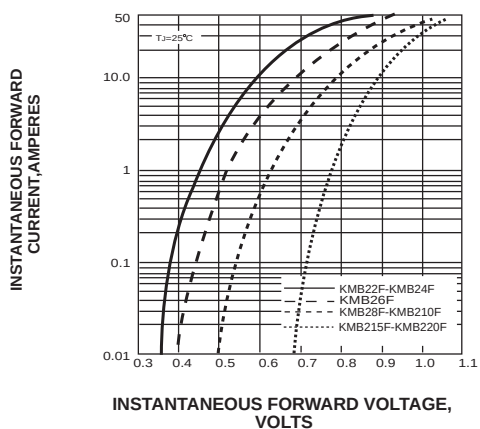
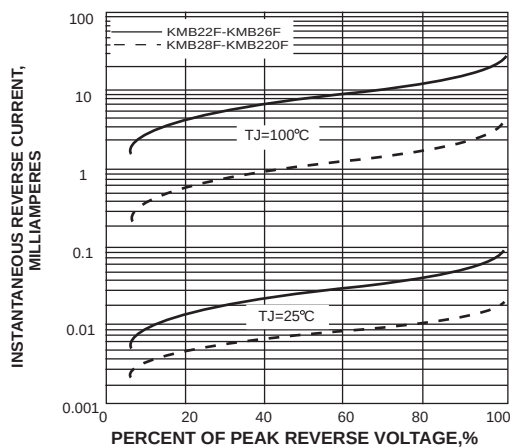
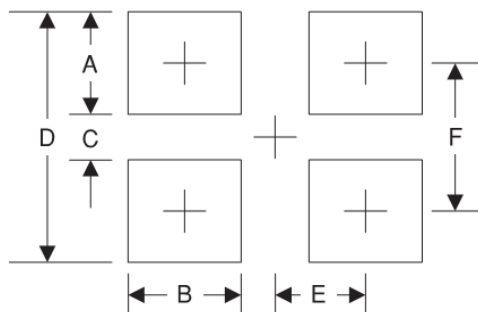


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)
A	1.7	0.067
B	1.0	0.039
C	4.40	0.173
D	8.10	0.319
E	1.25	0.049
F	6.30	0.248