

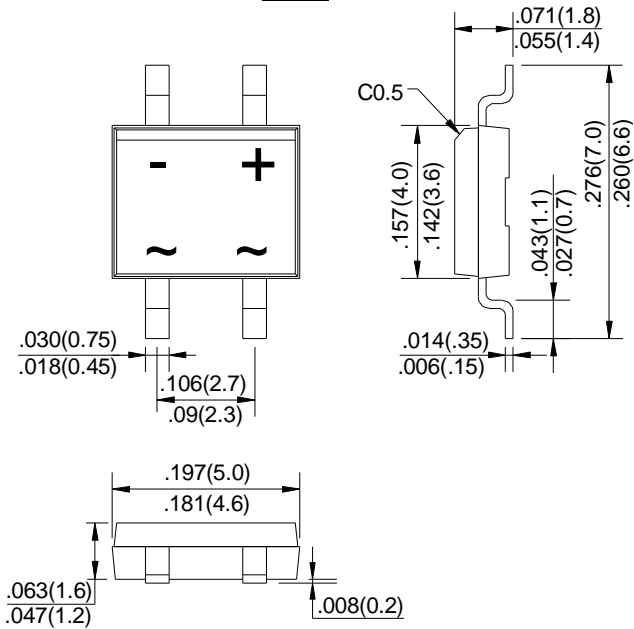


# KMB22F THRU KMB210F

## Schottky Surface Mount Flat Bridge Rectifier

Reverse Voltage - 20 to 100 Volts Forward Current - 2.0 Amperes

### MBF



Dimensions in inches and (millimeters)

### FEATURES

- Surge overload rating: 30 amperes peak
- Ideal for printed circuit board
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- Low leakage
- Reliable low cost construction utilizing molded

### MECHANICAL DATA

Case: Molded plastic, MBF

Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed

Mounting position: Any

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

MDD Catalog Number	Symbol	KMB22F	KMB24F	KMB26F	KMB28F	KMB210F	UNIT
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	40	60	80	100	V
Maximum RMS voltage	V <sub>RMS</sub>	14	28	42	56	70	V
Maximum DC blocking voltage	V <sub>DC</sub>	20	40	60	80	100	V
Maximum average forward rectified current 0.2×0.2"(5.0×5.0mm)copper pad area	I <sub>F(AV)</sub>	2.0					A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	50					A
Maximum instantaneous forwad voltage at 2.0A	V <sub>F</sub>	0.50	0.55	0.70	0.85		V
Maximum DC reverse current           T <sub>A</sub> = 25 °C at Rated DC blocking voltage        T <sub>A</sub> = 100°C	I <sub>R</sub>	0.5 20					mA
Typical Junction Capacitance at 4.0V,1.0MHZ	C <sub>J</sub>	250			125		pF
Typical Thermal resistance (Note1)	R <sub>θJA</sub>	85					°C/ W
	R <sub>θJL</sub>	20					
Operating junction temperature range	T <sub>J</sub>	−55 to +125					°C
Storage temperature range	T <sub>STG</sub>	− 55 to +150					°C

Note: 1. Thermal resistance from junction to ambient and from junction to lead P.C.B. mounted on 0.2×0.2"(5.0×5.0mm)copper pad areas.

# RATINGS AND CHARACTERISTIC CURVES KMB12F THRU KMB110F

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

Fig.1 Forward Current Derating Curve

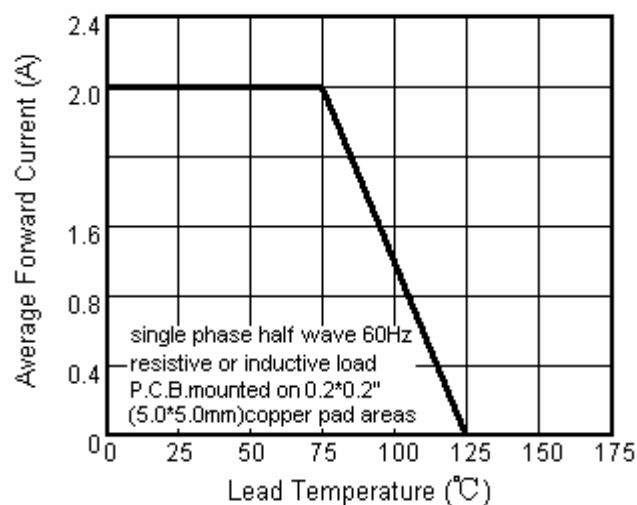


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

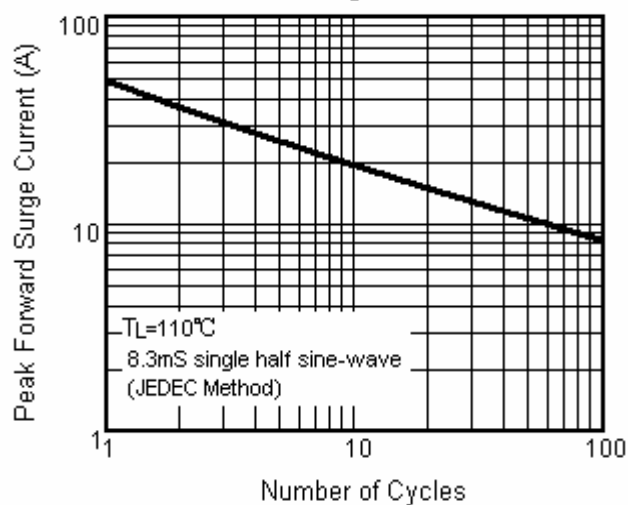


Fig.3 Typical Instantaneous Forward Characteristics

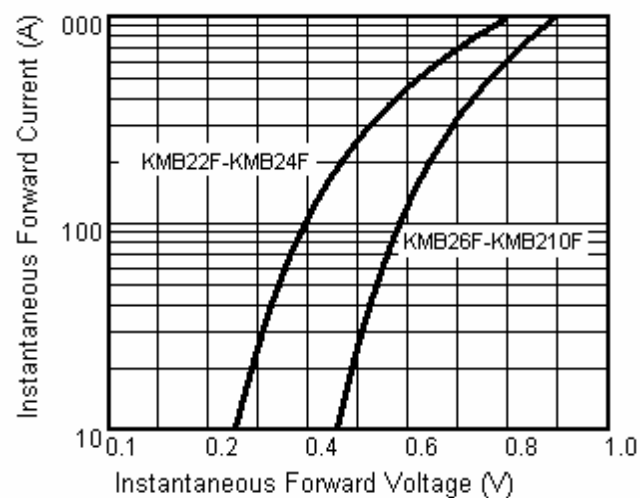


Fig.4A Typical Reverse Characteristics

