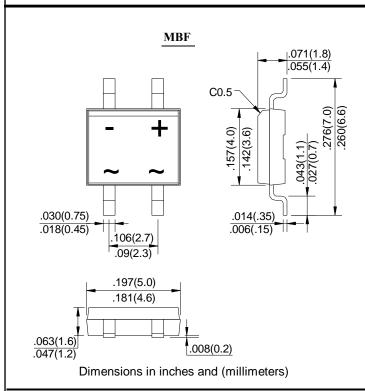


# **KMB22F THRU KMB210F**

# Schottky Surface Mount Flat Bridge Rectifier

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



# FEATURES

- $\cdot$  Surge overload rating: 30 amperes peak
- · Ideal for printed circuit board
- · Plastic material has Underwriters Laboratory
- Flammability Classification 94V-0
- $\cdot$  Low leakage
- $\cdot$  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%.

TWGMC 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					А
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	50					А
Maximum instantaneous forwad voltage at 2.0A	V <sub>F</sub>	0.50	0.55	0.70	0	V	
Maximum DC reverse current $T_A = 25 \ ^{\circ}C$ at Rated DC blocking voltage $T_A = 100 \ ^{\circ}C$	I <sub>R</sub>	0.5 20					mA
Typical Junction Capacitance at 4.0V,1.0MHz	CJ	250 125			25	pF	
Typical Thermal resistance (Note1)	R <sub>θJA</sub> R <sub>θJL</sub>	85 20					°C/W
Operating junction temperature range	TJ	–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<sub>A</sub>=25 unless otherwise noted)

Fig.1 Forward Current Derating Curve

