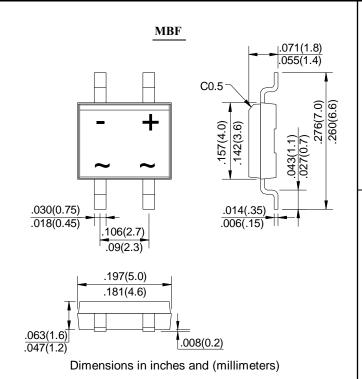


KMB12F THRU KMB110F

Schottky Surface Mount Flat Bridge Rectifier

Reverse Voltage - 20 to 100 Volts Forward Current - 1.0 Amperes



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	KMB12F	KMB14F	KMB16F	KMB18F	KMB110F	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	20	40	60	80	100	V
Maximum RMS voltage	V_{RMS}	14	28	42	56	70	V
Maximum DC blocking voltage	V_{DC}	20	40	60	80	100	V
Maximum average forward rectified current 0.2×0.2"(5.0×5.0mm)copper pad area	I _{F(AV)}	1.0					А
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	30					А
Maximum instantaneous forwad voltage at 1.0A	V_{F}	0.50 0.55 0.70 0.85				V	
Maximum DC reverse current $T_A = 25 ^{\circ}\mathbb{C}$ at Rated DC blocking voltage $T_A = 100 ^{\circ}\mathbb{C}$	I _R	0.5 20					mA
Typical Junction Capacitance at 4.0V,1.0MHz	CJ	250 125			25	pF	
Typical Thermal resistance (Note1)	$R_{ heta JA} \ R_{ heta JL}$	85 20					℃/W
Operating junction temperature range	T_J	-55 to +125					${\mathbb C}$
Storage temperature range	T _{STG}	– 55 to +150					$^{\circ}$

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 unless otherwise noted)

Fig.1 Forward Current Derating Curve

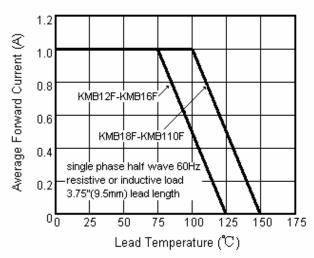


Fig.3 Typical Instantaneours Forward Characteristics

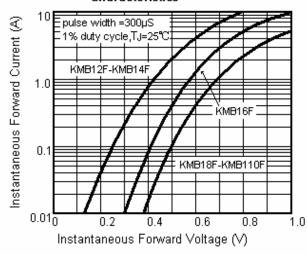


Fig.5 Typical Junction Capacitance

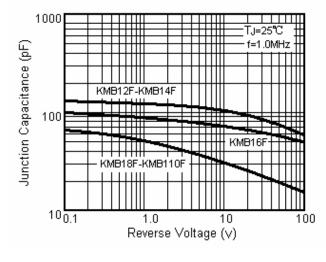


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

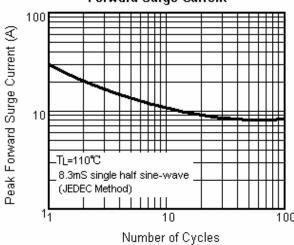


Fig.4A Typical Reverse Characteristics

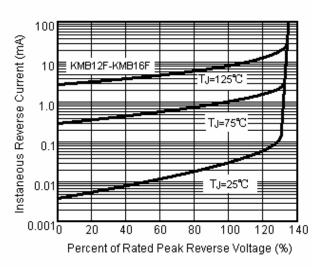


Fig.4B Typical Reverse Characteristics

