

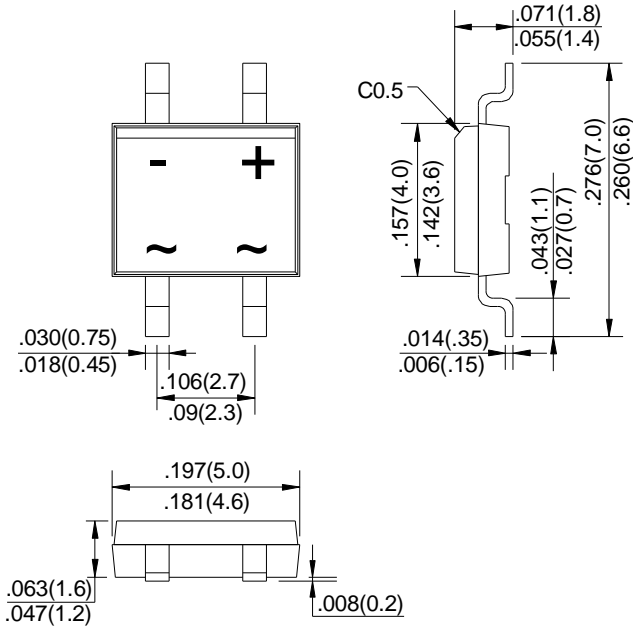


KMB24F THRU KMB220F

Schottky Surface Mount Flat Bridge Rectifier

Reverse Voltage - 40 to 200 Volts Forward Current - 2.0 Amperes

MBF



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	KMB24F	KMB26F	KMB28F	KMB210F	KMB215F	KMB220F	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	40	60	80	100	150	200	V
Maximum RMS voltage	V_{RMS}	28	42	56	70	105	140	V
Maximum DC blocking voltage	V_{DC}	40	60	80	100	150	200	V
Maximum average forward rectified current 0.2×0.2" (5.0×5.0mm) copper pad area	$I_{F(AV)}$	2.0						A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	40						A
Maximum instantaneous forward voltage at 2.0A	V_F	0.55	0.70	0.85		0.90		V
Maximum DC reverse current at Rated DC blocking voltage	I_R	$T_A = 25^\circ C$ 0.5			$T_A = 100^\circ C$ 0.3			mA
		10			5			
Typical Junction Capacitance at 4.0V, 1.0MHz	C_J	220	80					pF
Typical Thermal resistance (Note1)	$R_{\theta JA}$	75						°C/W
	$R_{\theta JL}$	20						
Operating junction temperature range	T_J	-55 to +125						°C
Storage temperature range	T_{STG}	- 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 KMB24F THRU KMB220F

Fig.1 Forward Current Derating Curve

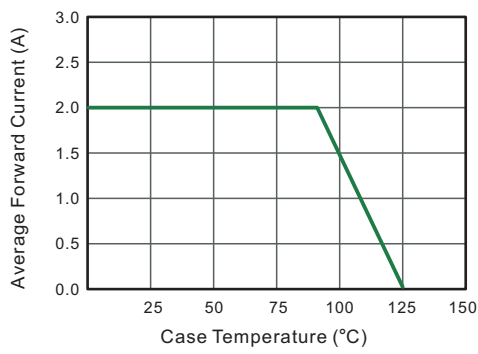


Fig.2 Typical Reverse Characteristics

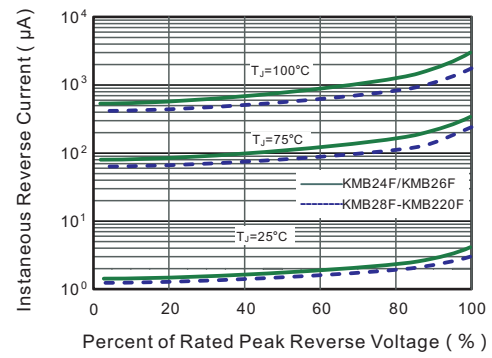


Fig.3 Typical Forward Characteristic

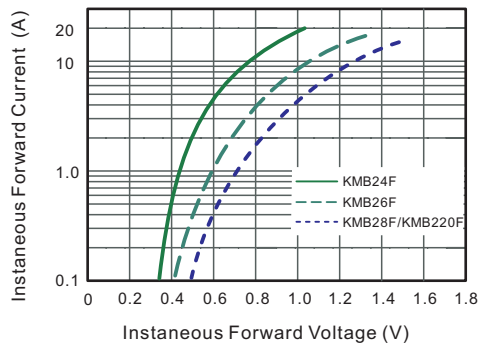


Fig.4 Typical Junction Capacitance

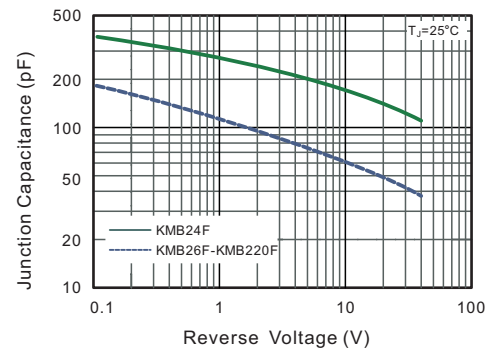


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

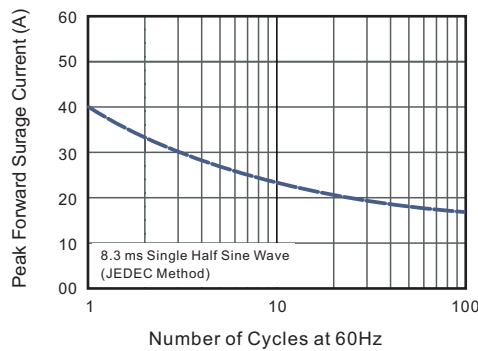
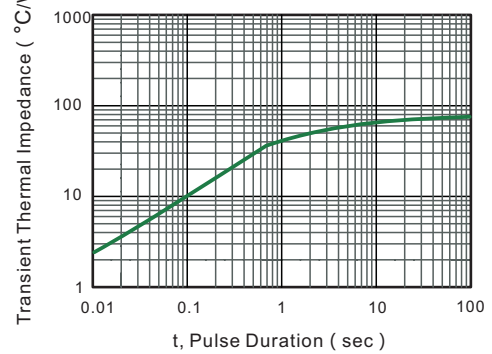


Fig.6 Typical Transient Thermal Impedance



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

