

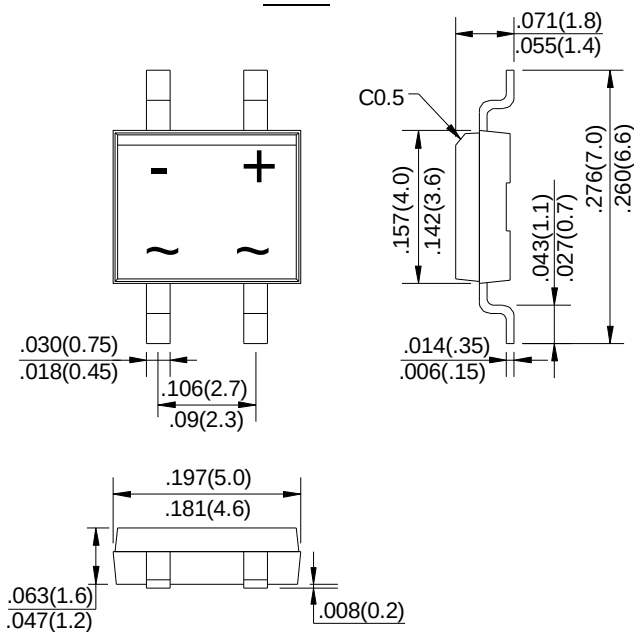


KMB14F THRU KMB120F

Schottky Surface Mount Flat Bridge Rectifier

Reverse Voltage - 40 to 200 Volts Forward Current - 1.0 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%.

TWGMC Catalog Number	Symbol	KMB14F	KMB16F	KMB18F	KMB110F	KMB115F	KMB120F	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	$I_{F(AV)}$	1.0						A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	30						A
Maximum instantaneous forward voltage at 1.0A	V_F	0.55	0.70	0.85	0.90			V
Maximum DC reverse current $T_A = 25^\circ\text{C}$ at Rated DC blocking voltage $T_A = 100^\circ\text{C}$	I_R	0.3 10		0.2 5	0.1 2			mA
Typical Junction Capacitance at 4.0V, 1.0MHz	C_J	110		80				pF
Typical Thermal resistance (Note1)	$R_{\theta JA}$ $R_{\theta JL}$	100 20						°C/W
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 KMB14F THRU KMB120F

Fig.1 Forward Current Derating Curve

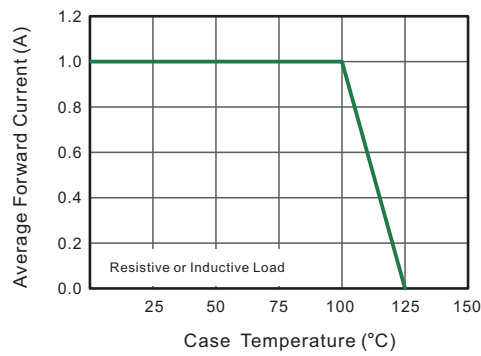


Fig.2 Typical Reverse Characteristics

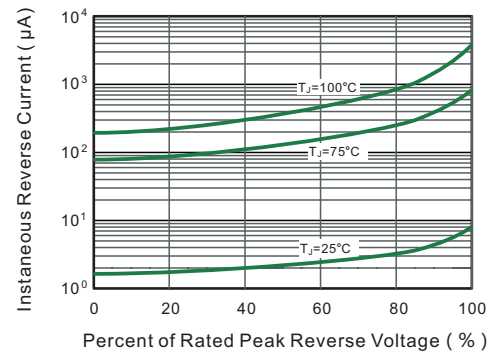


Fig.4 Typical Junction Capacitance

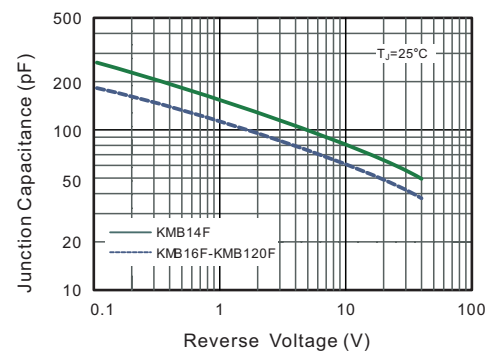


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

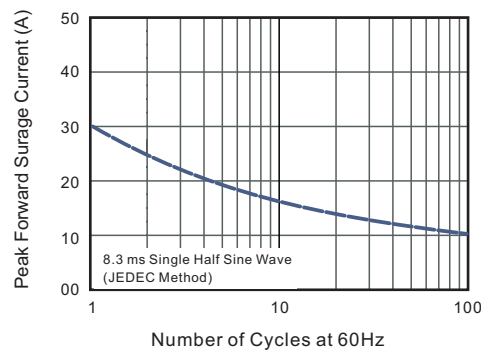
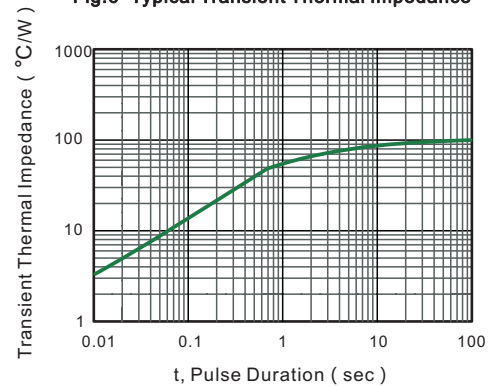


Fig.6- Typical Transient Thermal Impedance



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