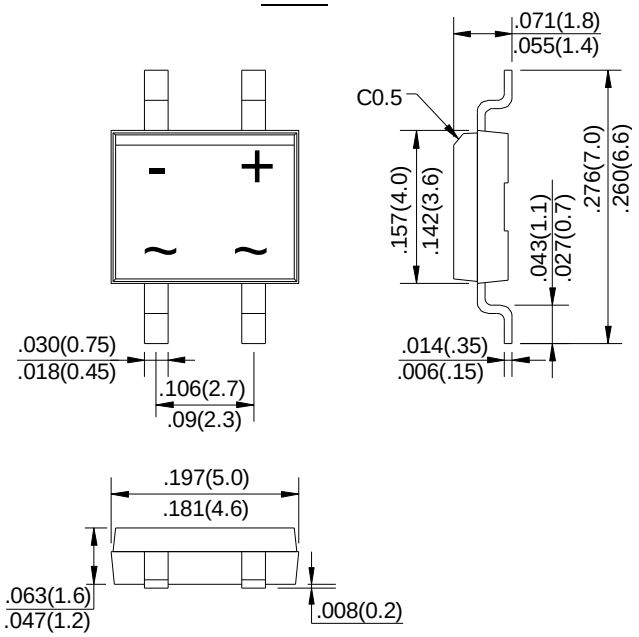
# KMB14F THRU KMB120F

## Schottky Surface Mount Flat Bridge Rectifier

*Reverse Voltage - 40 to 200 Volts  Forward Current - 1.0 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℃ 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 | 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 forwad voltage at 1.0A | $V_F$ | 0.55 | 0.70 | 0.85 | | 0.90 | | V |
| Maximum DC reverse current $T_A$ = 25 ℃<br>at Rated DC blocking voltage $T_A$ = 100℃ | $I_R$ | 0.3<br>10 | | 0.2<br>5 | | 0.1<br>2 | | mA |
| Typical Junction Capacitance at 4.0V,1.0MHz | $C_J$ | 110 | 80 | | | | | pF |
| Typical Thermal resistance (Note1) | $R_{\theta JA}$<br>$R_{\theta JL}$ | 100<br>20 | | | | | | ℃/ W |
| Operating junction temperature range | $T_J$ | –55 to +125 | | | | | | ℃ |
| Storage temperature range | $T_{STG}$ | – 55 to +150 | | | | | | ℃ |

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**

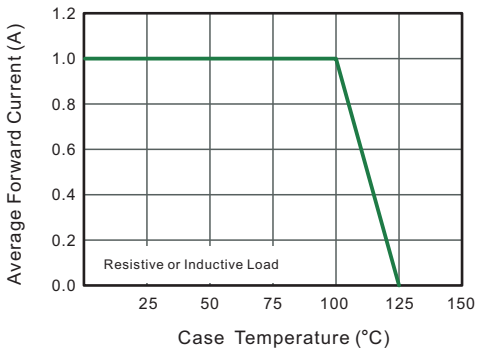
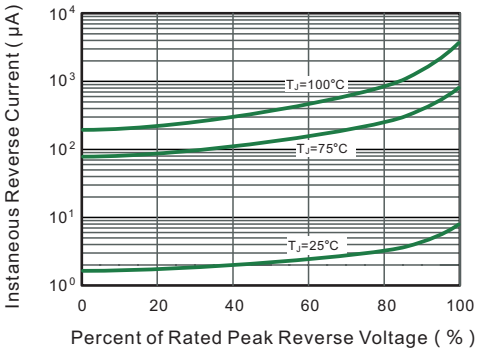



**Fig.2 Typical Reverse Characteristics**



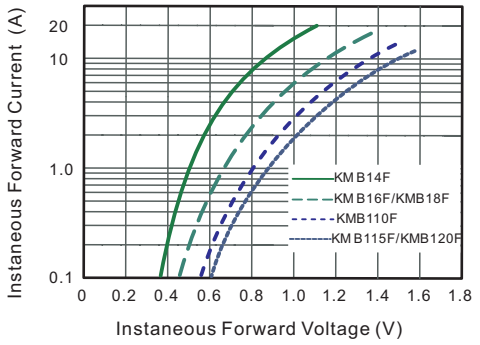




**Fig.4 Typical Junction Capacitance**

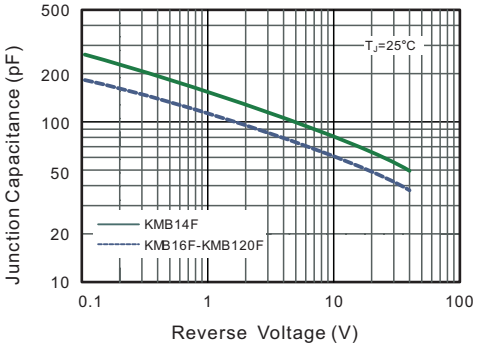



**Fig.5 Maximum Non-Repetitive Peak Forward Surage Current**

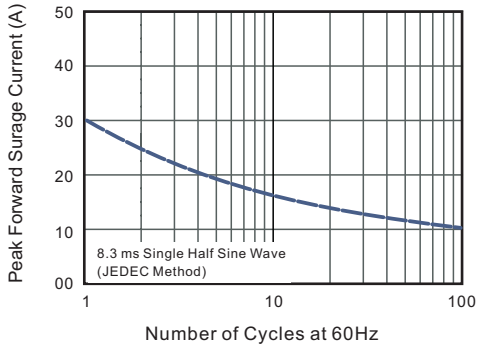
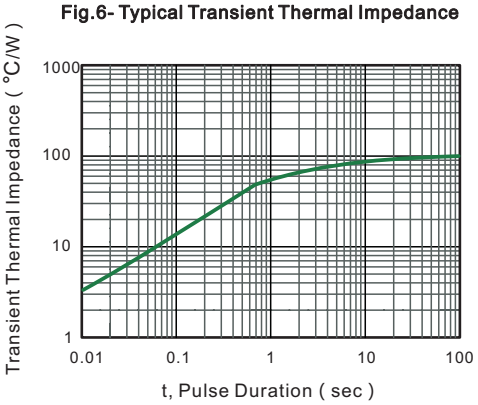



**Fig.6- Typical Transient Thermal Impedance**




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

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