

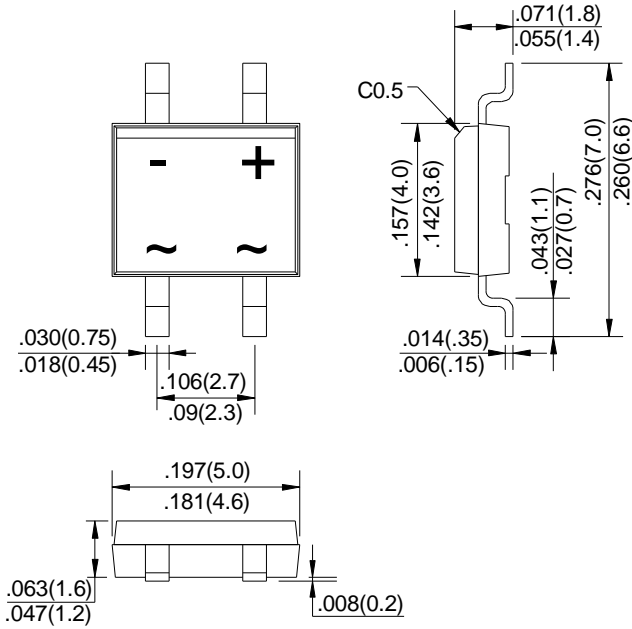


# KMB14F THRU KMB120F

## 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

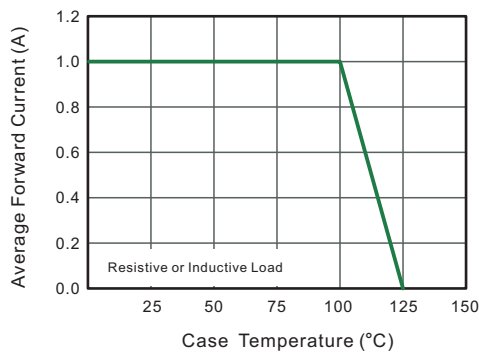
Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave 60Hz, resistive or inductive load, for current capacitive load, derate by 20%.

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 at Rated DC blocking voltage	$I_R$	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

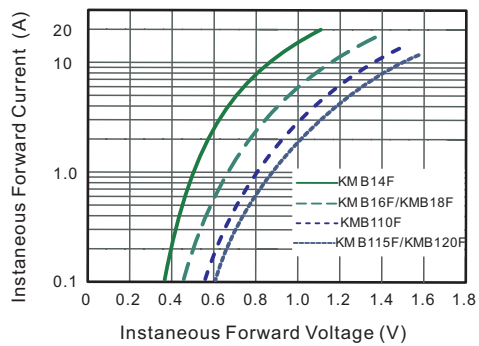
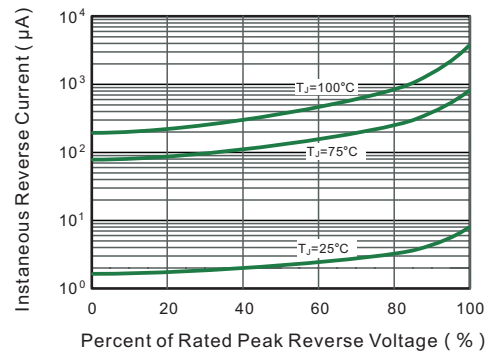
Note: 1. Thermal resistance from junction to ambient and from junction to lead P.C.B. mounted on 0.2×0.2" (5.0×5.0mm) copper pad areas.

# RATINGS AND CHARACTERISTIC CURVES KMB14F THRU KMB120F

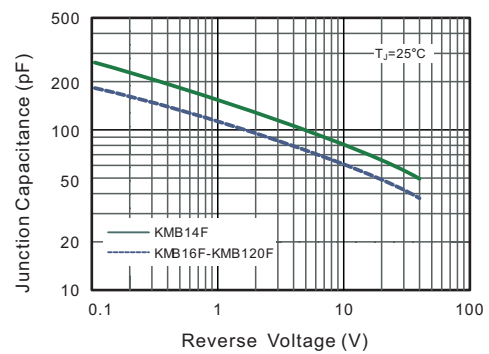
**Fig.1 Forward Current Derating Curve**



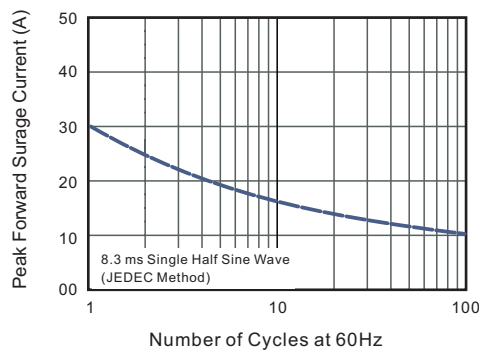
**Fig.2 Typical Reverse Characteristics**



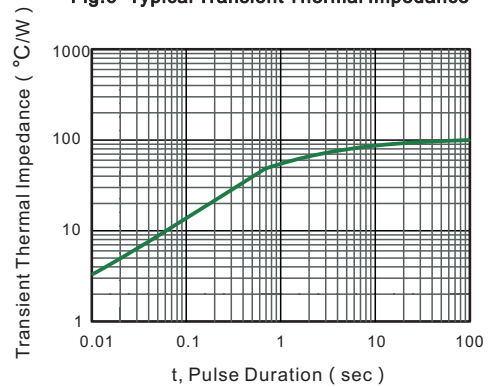
**Fig.4 Typical Junction Capacitance**



**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)!