

## Schottky Surface Mount Flat Bridge Rectifier

### 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

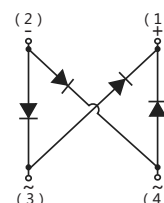
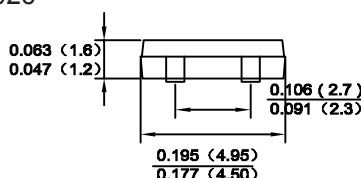
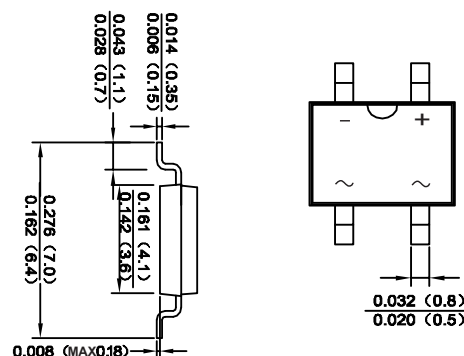
**Case :** JEDEC MBF Molded plastic body

**Terminals :** Solder plated, solderable per MIL-STD-750, Method 2026

**Polarity :** Polarity symbol marking on body

**Mounting Position :** Any

**Weight :** 0.0026 ounce, 0.075 grams



### Maximum Ratings And Electrical Characteristics

Dimensions in inches and (millimeters)

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	MDD	MDD	MDD	MDD	MDD	MDD	UNITS
		KMB14F	KMB16F	KMB18F	KMB110F	KMB115F	KMB120F	
Marking Code								
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	$I_{F(AV)}$	1.0						A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	30						A
Maximum instantaneous forward voltage per at 1A	$V_F$	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 thermal resistance (NOTE1)	$R_{\theta JA}$ $R_{\theta JL}$	100 20						°C/W
Typical junction capacitance	$C_j$	110	80					pF
Operating 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

Fig.1 Forward Current Derating Curve

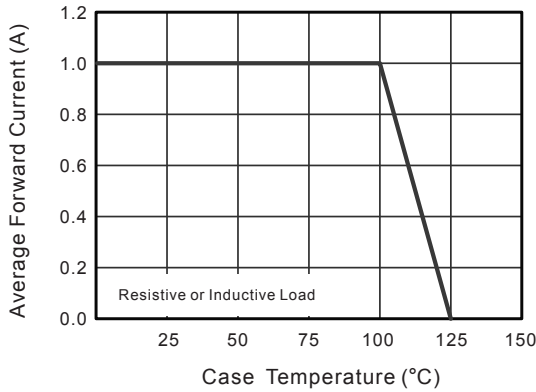


Fig.2 Typical Reverse Characteristics

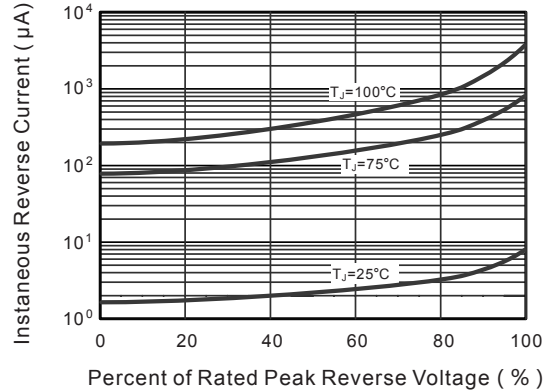


Fig.3 Typical Forward Characteristic

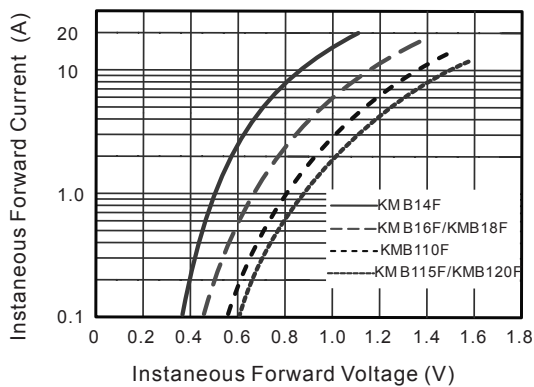


Fig.4 Typical Junction Capacitance

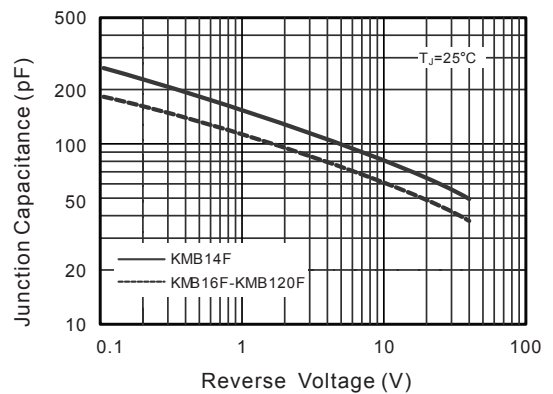


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

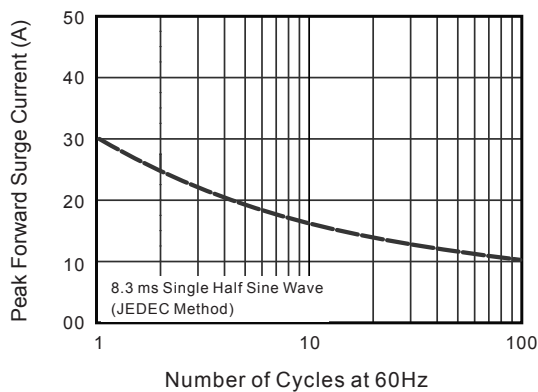
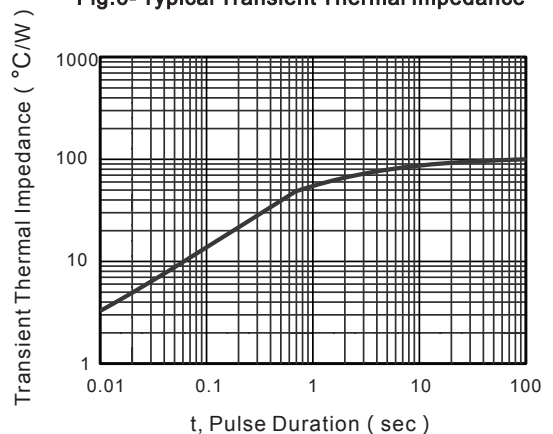
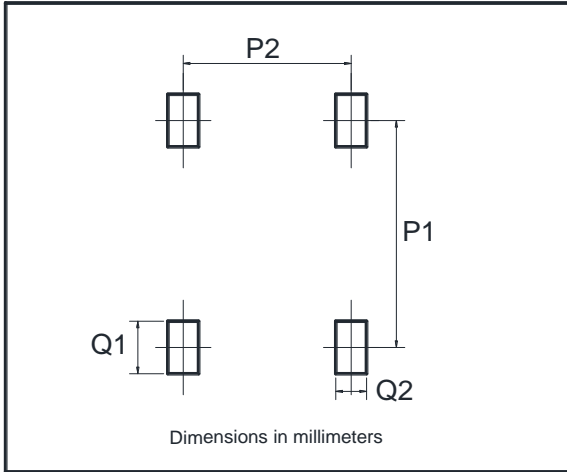


Fig.6- Typical Transient Thermal Impedance



The curve above is for reference only.

## Suggested Pad Layout



Dim	Min
P1	6.00
P2	2.40
Q1	1.84
Q2	1.20