



KMB14F THRU KMB120F

Voltage Range - 40 to 200 V olts Forward Current - 1.0 Ampere

Schottky Surface Mount Flat Bridge Rectifier

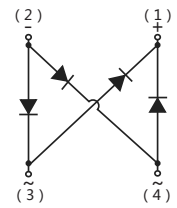
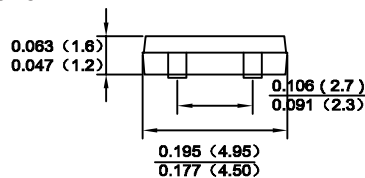
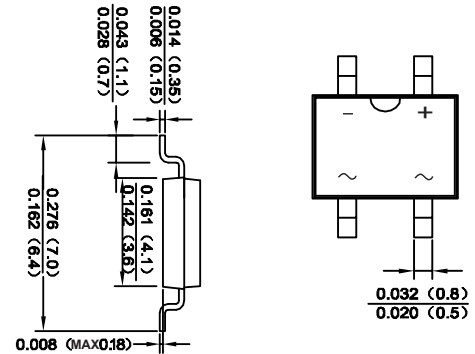
Features

- ◆ 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						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	$T_A=25^\circ C$ 0.3		$T_A=100^\circ C$ 5		$T_A=100^\circ C$ 2		mA
Typical thermal resistance (NOTE1)	$R_{\theta JA}$ $R_{\theta JL}$	100 20						$^\circ C/W$
Typical junction capacitance	C_j	110	80					pF
Operating temperature range	T_J	-55 to +125						$^\circ C$
storage temperature range	T_{STG}	-55 to +150						$^\circ C$

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.



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Ratings And Characteristic Curves

Fig.1 Forward Current Derating Curve

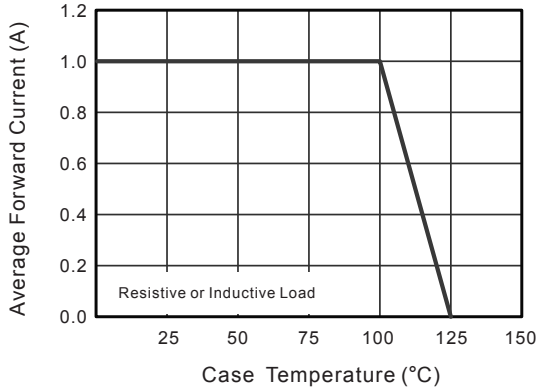


Fig.2 Typical Reverse Characteristics

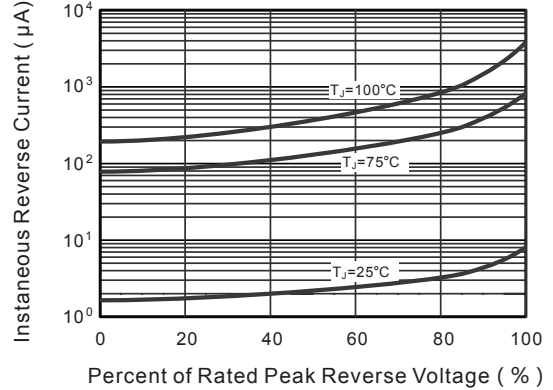


Fig.3 Typical Forward Characteristic

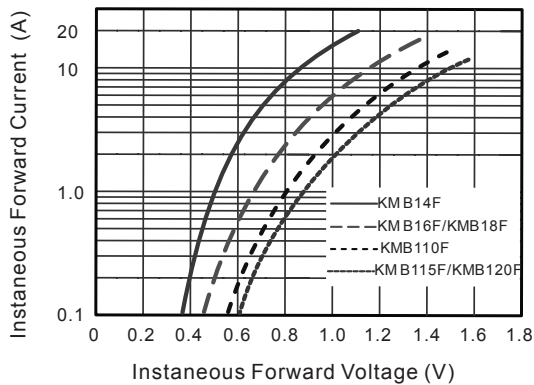


Fig.4 Typical Junction Capacitance

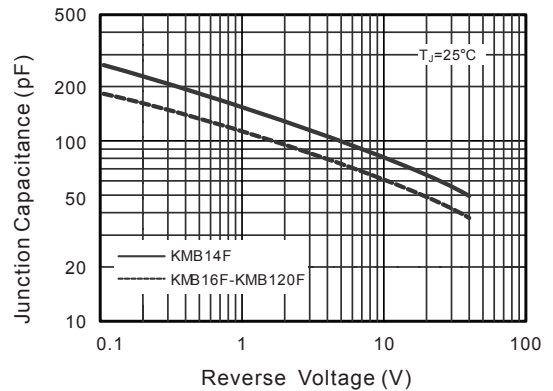


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

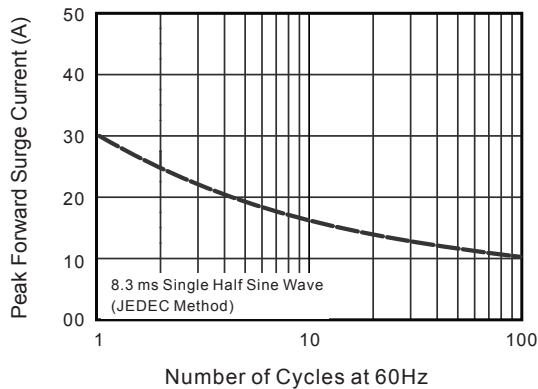
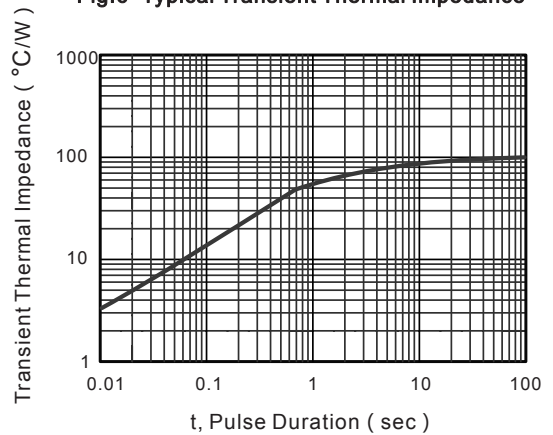


Fig.6- Typical Transient Thermal Impedance



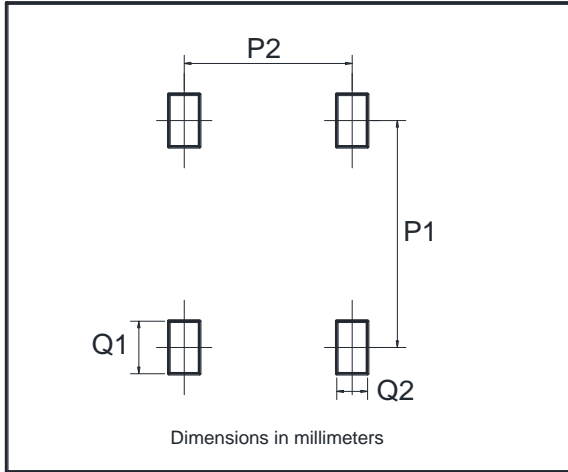
The curve above is for reference only.



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Suggested Pad Layout



Dim	Min
P1	6.00
P2	2.40
Q1	1.84
Q2	1.20

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