KMB24F THRU KMB220F

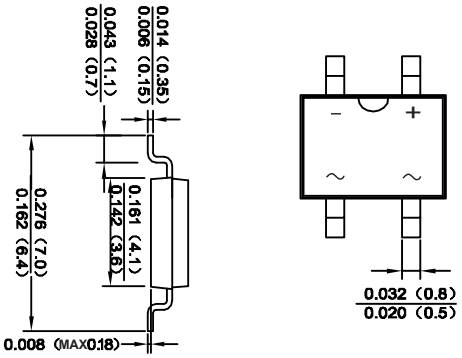
Voltage Range - 40 to 200 V olts Forward Current - 2.0 Ampere

Schottky Surface Mount Flat Bridge Rectifier

Features

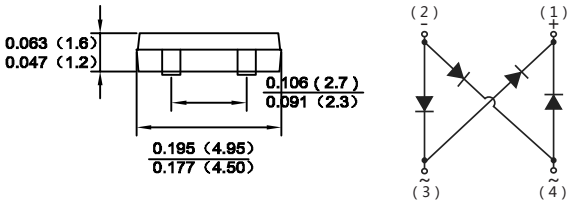
MBF

- Reverse Voltage - 40 t o 2 0 0 V
- Forward Current - 2.0 A High
- Surge Current Capability
- Designed for Surface Mount Application



Mechanical Data

Case : JEDEC MBF Molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750,Method 2026
Polarity : Polarity symbol marking on case
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 unlss otherwise specified.

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

Parameter Marking Code	SYMBOLS	MDD KMB24F	MDD KMB26F	MDD KMB28F	MDD KMB210F	MDD KMB215F	MDD KMB220F	UNITS
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	$I_{F(AV)}$	2.0						A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50		40				A
Maximum instantaneous forward voltage per at 2A	V_F	0.55	0.70	0.85				V
Maximum DC reverse current T_A=25°C at rated DC blocking voltage T_A=100°C	I_R	0.5 10		0.3 5				mA
Typical thermal resistance(NOTE2)	$R\theta_{JA}$	75						°C/W
Typical junction capacitance(NOTE1)	C_j	220	80					pF
Operating temperature range	T_J	-55 to +125						°C
storage temperature range	T_{STG}	-55 to +150						°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with4×1.5"×1.5" (3.81×3.81 cm) copper pad.

Ratings And Characteristic Curves

Fig.1 Forward Current Derating Curve

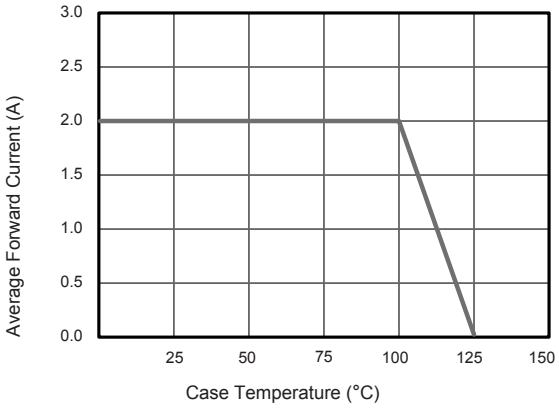


Fig.2 Typical Reverse Characteristics

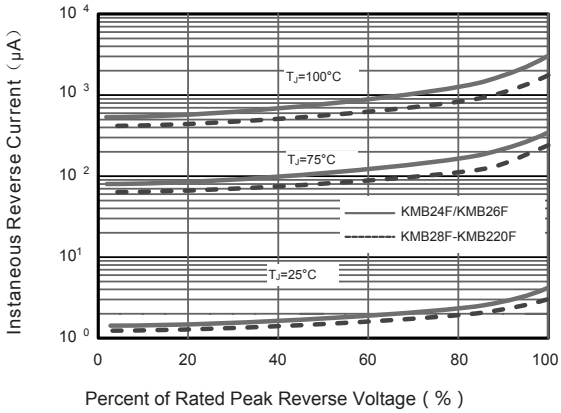


Fig.3 Typical Forward Characteristic

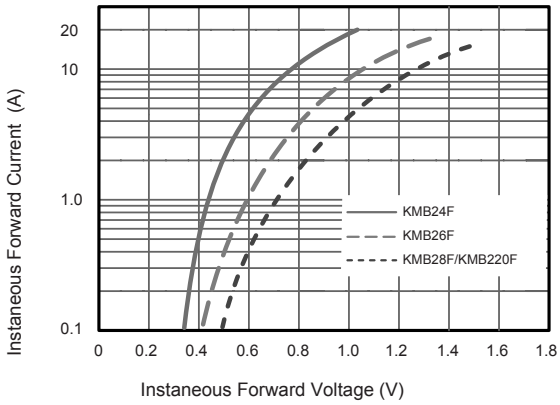


Fig.4 Typical Junction Capacitance

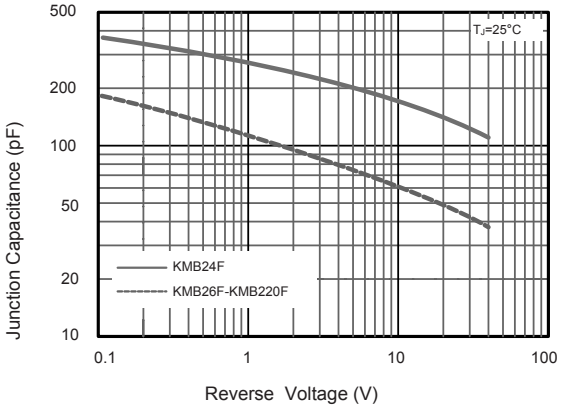


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

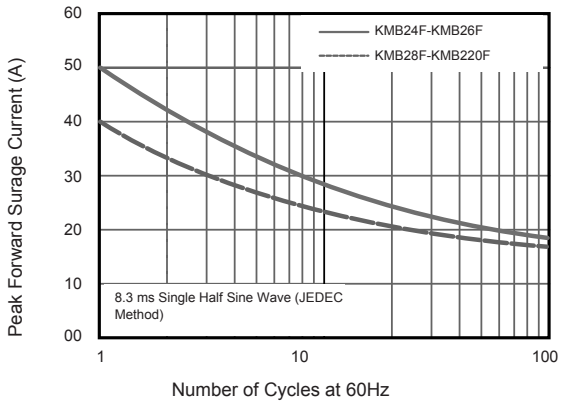
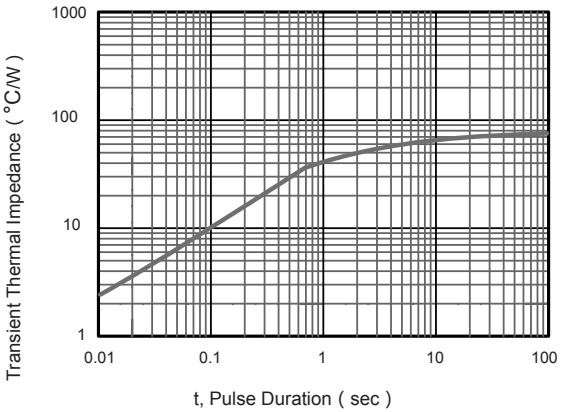
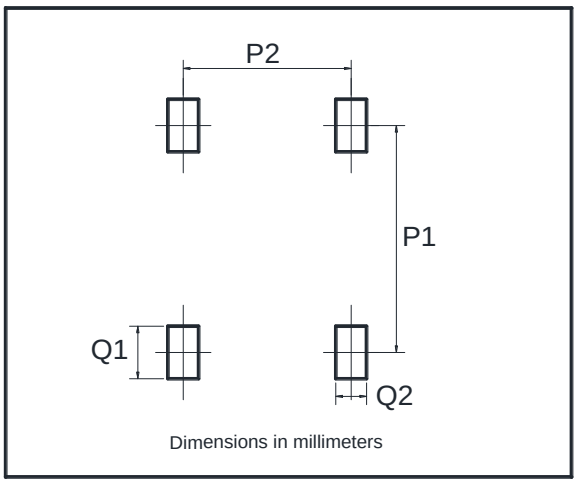


Fig.6- Typical Transient Thermal Impedance



The curve above is for reference only.

Suggested Pad Layout



Dim	Min
P1	6.00
P2	2.40
Q1	1.84
Q2	1.20