



KMB22F(GW) – KMB210F(GW)

Schottky Surface Mount Flat Bridge Rectifier

Major Ratings and Characteristics

$I_{F(AV)}$	2.0 A
V_{RRM}	20 V to 100 V
I_{FSM}	50 A
V_F	0.50 V, 0.55V, 0.70 V, 0.85V
$T_J \text{ max.}$	125 °C

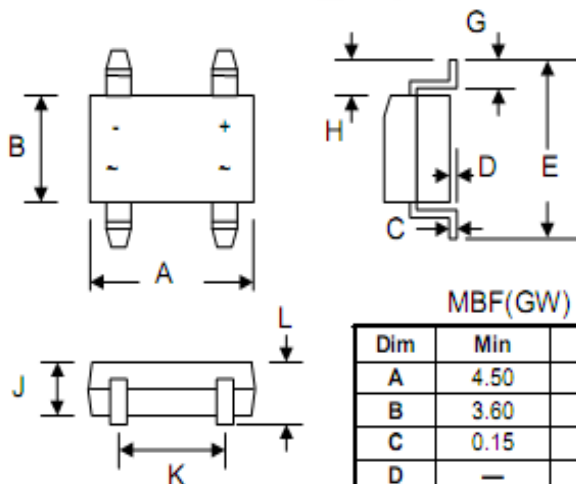
Features

- Low profile package
- Ideal for automated placement
- Ultrafast reverse recovery time
- Low power losses, high efficiency
- Low forward voltage drop
- High surge capability
- High temperature soldering:
260°C/10 seconds at terminals
- Component in accordance to
RoHS 2002/95/1 and WEEE 2002/96/EC

Mechanical Data

- **Case:** MBF molded plastic body over Schottky barrier chips
- **Terminals:** Solder plated, solderable per J-STD-002B and JESD22-B102D
- **Polarity:** Polarity symbols marked on body

Patent Pending



Dim	Min	Max
A	4.50	4.95
B	3.60	4.10
C	0.15	0.35
D	—	0.20
E	6.40	7.00
G	0.50	1.10
H	1.30	1.70
J	1.20	1.60
K	2.30	2.70
L	—	1.80
All Dimensions in mm		

Maximum Ratings & Thermal Characteristics & Electrical Characteristics

($T_A = 25\text{ °C}$ unless otherwise noted)

	Symbol	KMB22F	KMB24F	KMB26F	KMB28F	KMB210F	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	20	40	60	80	100	V
Maximum RMS voltage	V _{RMS}	14	28	42	56	70	V
Maximum DC blocking voltage	V _{DC}	20	40	60	80	100	V
Maximum average forward rectified current 0.2×0.2"(5.0×5.0mm)copper pad area	I _{F(AV)}	2.0					A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	50					A
Maximum instantaneous forward voltage at 2.0A	V _F	0.50	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 20					mA
Typical Junction Capacitance at 4.0V,1.0MHz	C _J	250			125		pF
Typical Thermal resistance (Note1)	R _{θJA} R _{θJL}	85 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.





Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig.1 Forward Current Derating Curve

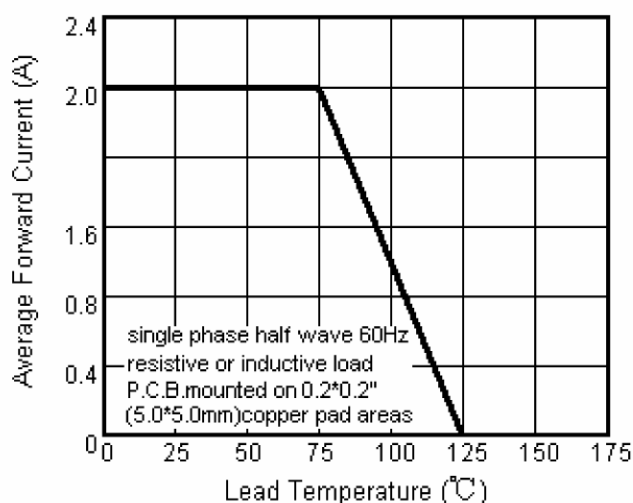


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

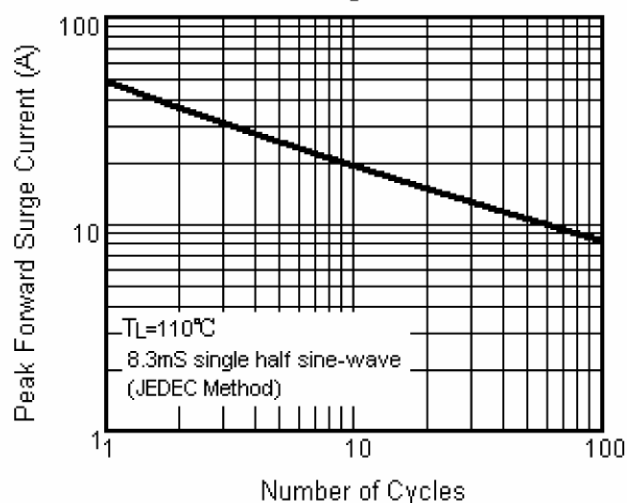


Fig.3 Typical Instantaneous Forward Characteristics

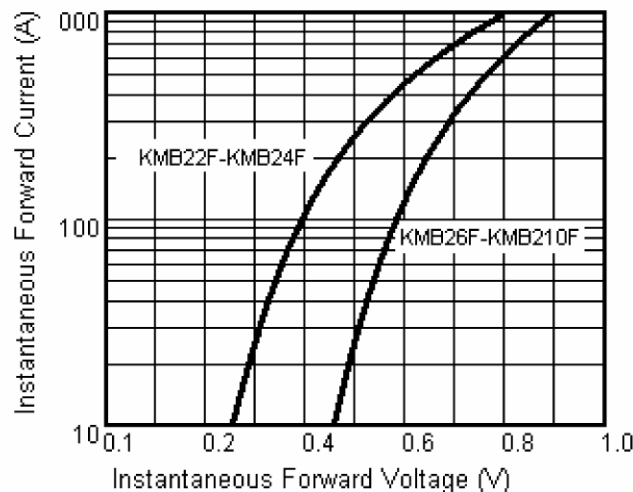


Fig.4A Typical Reverse Characteristics

