



KMB22F THRU KMB225F

Surface Mount Schottky Bridge Rectifiers

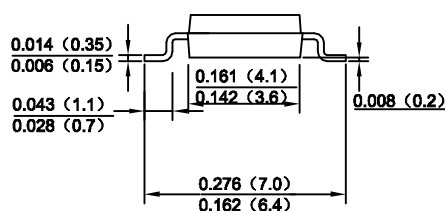
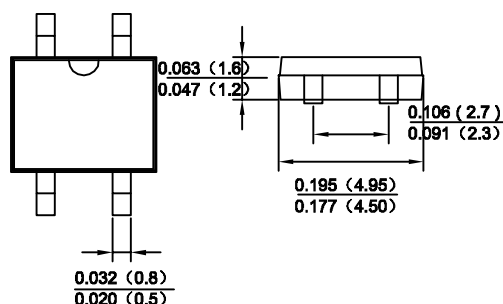
Features

- Schottky Brrier Chip
- Low Power Loss,High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 30A Peak
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Mechanical Data

- Case: MB-F, molded plastic
- Terminals: plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting position: Any
- Marking: type number
- Lead Free: For RoHS / Lead Free Version,

MBF(GW)



Dimensions in inches and (milimeters)

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	KMB 22F	KMB 23F	KMB 24F	KMB 245F	KMB 25F	KMB 26F	KMB 28F	KMB 210F	KMB 215F	KMB 220F	KMB 225F	UNITS	
Peak Repetitive Reverse Voltage	V _{RRM}	20	30	40	45	50	60	80	100	150	200	250	V	
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	31	35	42	56	70	105	140	175		
DC Blocking Voltage	V _{DC}	20	30	40	45	50	60	80	100	150	200	250		
Average Rectified Output Current (Note1) @T _C = 100°C	I _{F(AV)}	2.0											A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50											A	
I ² t Rating for Fusing (t < 8.3ms)	I ² t	10.375											A ² s	
Forward Voltage per element @I _F =2.0A	V _{FM}	0.55				0.7		0.85		0.90		0.92	V	
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	0.1						0.05						mA
		10						5						
Typical Junction Capacitance per leg	C _j	28											pF	
Typical Thermal Resistance per leg (Note2)	R _{θJL}	16											°C/W	
Operating junction temperature range	T _J	-55 to +150											°C	
Operating and Storage Temperature Range	T _{STG}	-55 to +150											°C	

Note:

1. Mounted on aluminum substrate PC board with 1.3mm² solder pad.
2. Thermal RESistance From Junction to LEAD



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

FIG. 1- FORWARD CURRENT DERATING CURVE

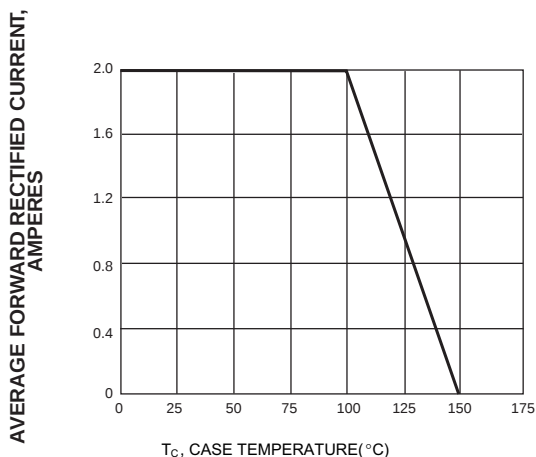


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

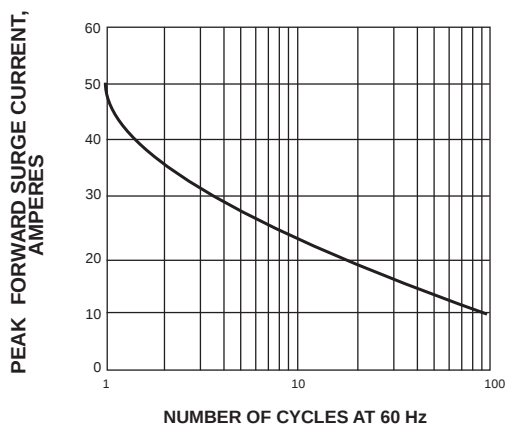


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

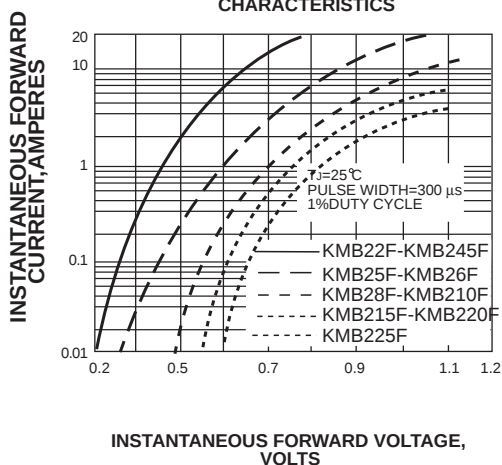


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

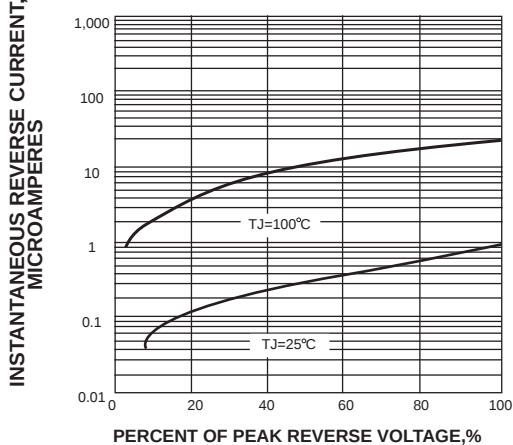


FIG. 5-TYPICAL TRANSIENT THERMAL IMPEDANCE

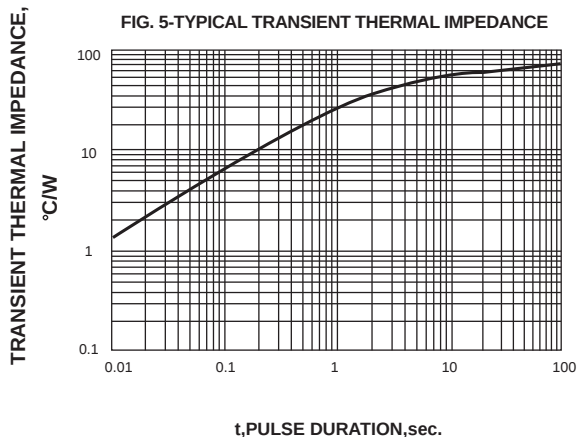


FIG.6 MOUNTING PAD LAYOUT

