

VI. Bridge Rectifier

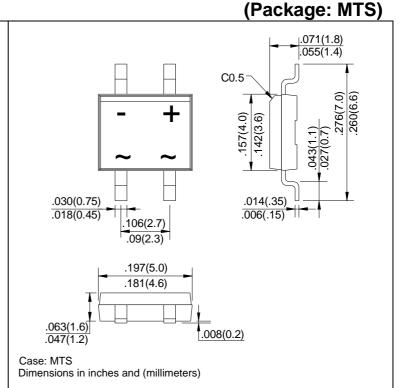
2.0A SMD Schottky Bridge Rectifiers (Low Profile Type) KMB22F~KMB210F

FEATURES

- Reliable low cost construction utilizing molded plastic technique.
- · Ultrafast reverse recovery time.
- · High surge current capability.
- Saves space on printed circuit boards.
- High temperature soldering guaranteed:
 260 / 10 seconds at terminals.

MECHANICAL DATA

- Case: Molded plastic body over schottky barrier chips.
- Terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D.
- Polarity: Polarity symbols marked on case.
- · Mounting position : Any.



Ratings & Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified

Characteristic	Symbol	KMB22F	KMB24F	KMB26F	KMB28F	KMB210F	Units
Maximum repetitive peak reverse voltage	V_{RRM}	20	40	60	80	100	Volts
Maximum RMS voltage	V _{RMS}	14	28	42	56	70	Volts
Maximum DC blocking voltage	V _{DC}	20	40	60	80	100	Volts
Maximum average forward rectified current 0.2x0.2"(5.0x5.0mm) copper pad area	lo	2.0					Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load.	I _{FSM}	50					Amps
Maximum instantaneous forward voltage at 2.0A	V_{F}	0.50	0.55	0.70	0.70 0.85		
Maximum DC reverse current at @Ta = 25 rated DC blocking voltage @Ta = 100	I _R	0.5 20					mA
Typical junction capacitance (Note 1)	Cj	250			1:	125	
Typical thermal resistance (Note 2)	Rth-JA Rth-JL	85 20					/W
Operating junction temperature range	Tj	-55 to +125					
Storage temperature range	Tstg	-55 to +150					

Notes:

^{1.} Measured at 1 MHz and applied reverse voltage of 4.0 volts D.C.

^{2.} Thermal resistance from junction to ambient and from junction to lead P.C.B. mounted on 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas.



Ratings and Characteristic Curves of KMB22F~KMB210F

