



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

**BK22F
THRU
BK210F**

TECHNICAL SPECIFICATIONS OF SCHOTTKY SINGLE-PHASE SURFACE MOUNT BRIDGE RECTIFIER

VOLTAGE RANGE - 20 to 100 Volts

CURRENT - 2.0 Amperes

FEATURES

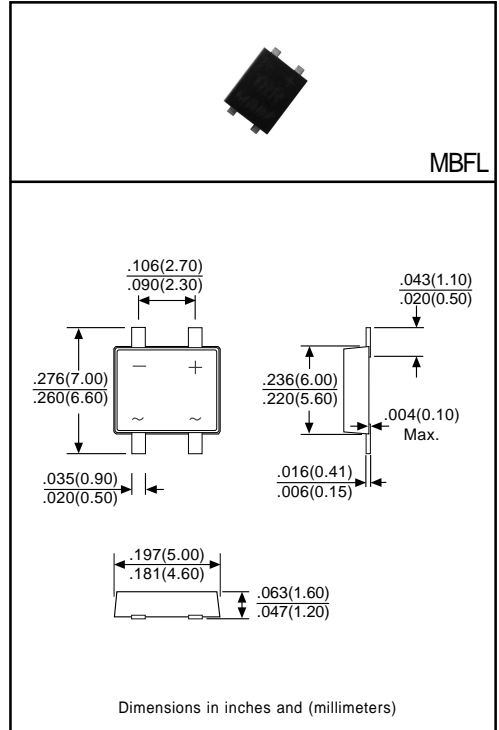
- * Ideal for automated placement
- * Low profile space
- * Low forward voltage drop
- * Low power losses
- * High surge capability, high efficiency
- * Ultrafast reverse recovery time

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Symbols molded or marked on body
- * Mounting position: Any
- * Weight: 0.12 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.



Dimensions in inches and (millimeters)

	SYMBOL	BK22F	BK24F	BK26F	BK28F	BK210F	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	Volts
Maximum RMS Bridge Input Voltage	V _{RMS}	14	28	42	56	70	Volts
Maximum DC Blocking Voltage	V _{DC}	20	40	60	80	100	Volts
Maximum Average Forward Output Current at T _A = 30°C	I _O	2.0					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50					Amps
Maximum DC Forward Voltage Drop per Bridge Element at 2.0A DC	V _F	0.50	0.55	0.70	0.85		Volts
Maximum Reverse Current at rated	I _R	0.5					μAmps
DC Blocking Voltage per element		20					
Typical Junction Capacitance (Note1)	C _J	250			125		pF
Typical Thermal Resistance (Note 2)	R _{θJA}	85					°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-50 to + 150					°C

NOTES : 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

2. Thermal Resistance from Junction to Ambient and from junction to lead mounted on P.C.B. with 0.2 x 0.2" (5.0x5.0mm) copper pads.

RATING AND CHARACTERISTIC CURVES (KMB22F THRU KMB210F)

FIG. 1 - DERATING CURVE FOR OUTPUT CURRENT

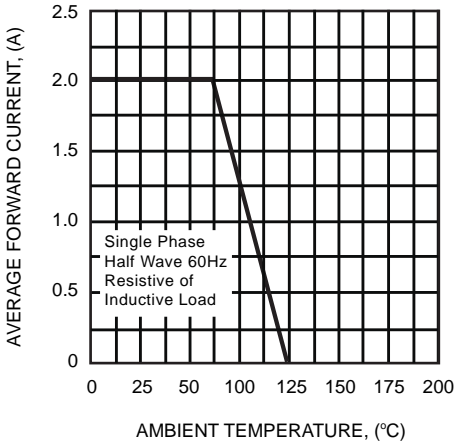


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

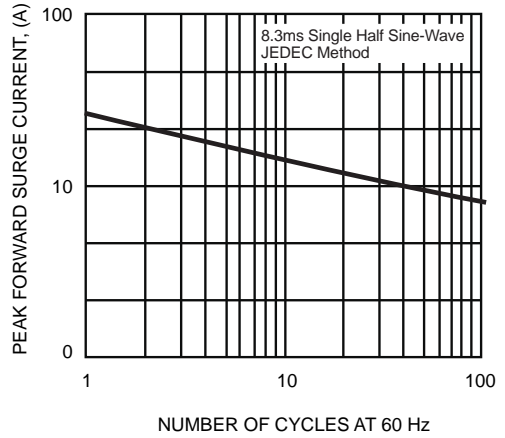


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

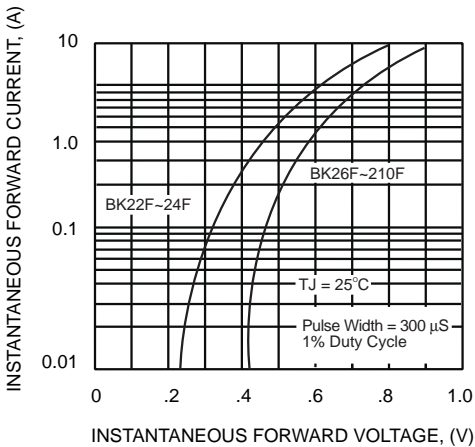
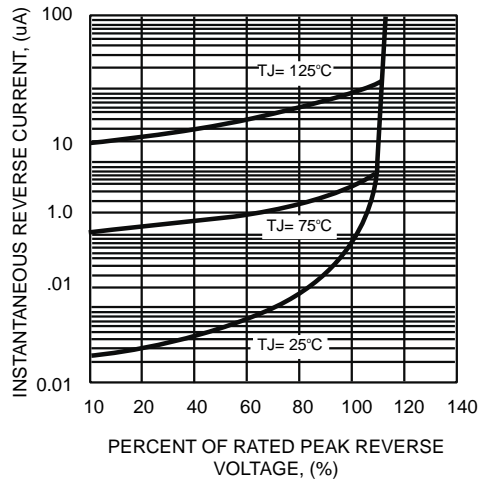


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



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