

KMB22F THRU KMB225F

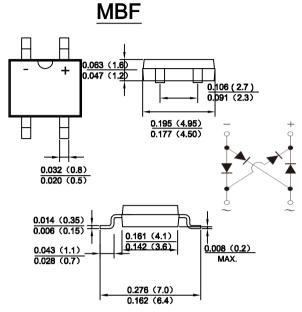
SINGLE PHASE 2.0 AMP SURFACE MOUNT SCHOTTKY BRIDGE RECTIFIER

Features

- · Schottky Brrier Chip
- · Low Power Loss, High Efficiency
- · Ideally Suited for Automatic Assembly
- · Surge Overload Rating to 50A 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,



dimensions in inches and (millimeters)

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

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

I and the second													
TYPE NUMBER	SYMBOL	KMB 22F	KMB 23F			KMB 25F				KMB 215F			UNITS
Peak Repetitive Reverse Voltage	Vrrm	20	30	40	45	50	60	80	100	150	200	250	
RMS Reverse Voltage	VR(RMS)	14	21	28	31	35	42	56	70	105		175	V
DC Blocking Voltage	VDC	20	30	40	45	50	60	80	100	150		250	
Average Rectified Output Current (Note1) @T _c = 100°0	IF(AV)	2.0										А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50									А		
I ² t Rating for Fusing (t < 8.3ms)	l ² t	10.375										A ² s	
Forward Voltage per element @I _F =2.0A	VFM	0.55			0	.7	0	.85	0.	90	0.92	V	
Peak Reverse Current @T _A = 25°C	I _{RM}	0.1 0.05										0	
At Rated DC Blocking Voltage @T _A = 100°C	; 'KIVI	10 5										mA	
Typical Junction Capacitance per leg	Ci	28								pF			
Typical Thermal Resistance per leg (Note2)	Rejl	16						°C/W					
Operating junction temperature range	TJ	-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

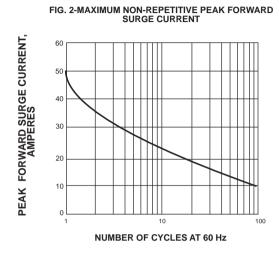
version:02 1 of 3 www.dyelec.com

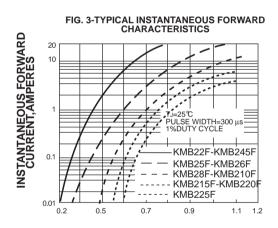


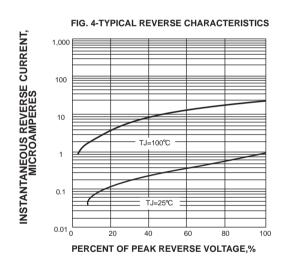
KMB22F THRU KMB225F

FIG. 1- FORWARD CURRENT DERATING CURVE AVERAGE FORWARD RECTIFIED CURRENT, AMPERES 2.0 1.6 1.2 0.8 175

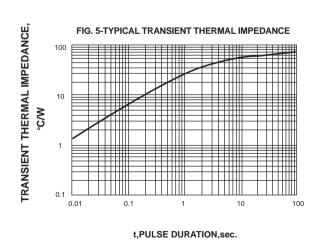
T_C, CASE TEMPERATURE(°C)

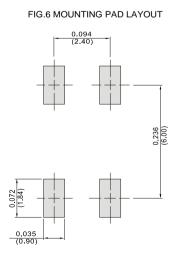














KMB22F THRU KMB225F

Important Notice and Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from DIYI.
- DIYI reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.
- DIYI disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- DIYI does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the here in document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications.
 - DIYI makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown here in are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify DIYI for any damages resulting from such improper use or sale.
- Since DIYI uses lot number as the tracking base, please provide the lot number for tracking when complaining.

version:02 3 of 3 www.dyelec.com