



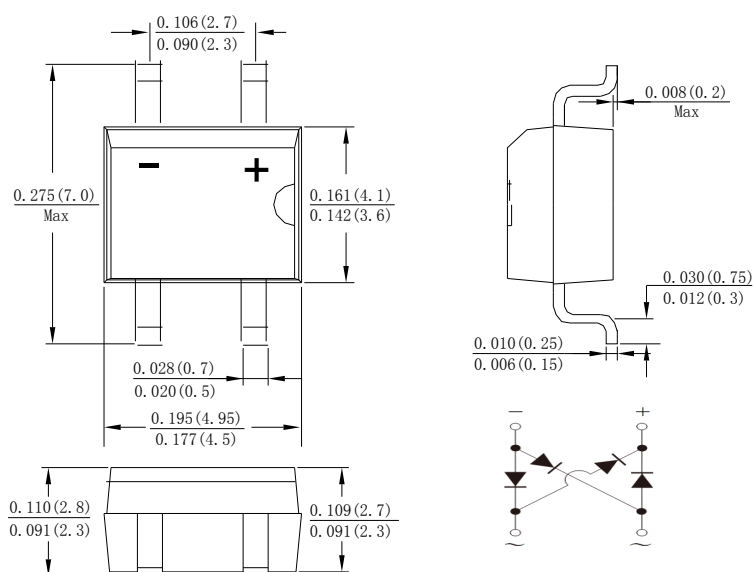
# KMB32S THRU KMB325S

Single Phase 2.0AMP Surface Mount Schottky Bridge Rectifier

## Features

- Schottky Brrier Chip
- Low Power Loss,High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 80A Peak
- Plastic Case Material has UL Flammability Classification Rating 94V-0

Case: MBS



dimensions in inches and (millimeters)

## Mechanical Data

- Case: MB-S, 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,

## Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=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 32S	KMB 33S	KMB 34S	KMB 345S	KMB 35S	KMB 36S	KMB 38S	KMB 310S	KMB 315S	KMB 320S	KMB 325S	UNITS	
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	20	30	40	45	50	60	80	100	150	200	250	V	
RMS Reverse Voltage	V <sub>R(RMS)</sub>	14	21	28	31	35	42	56	70	105	140	175		
DC Blocking Voltage	V <sub>DC</sub>	20	30	40	45	50	60	80	100	150	200	250		
Average Rectified Output Current ( Note1) @T <sub>C</sub> =100°C	I <sub>F(AV)</sub>	3.0											A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	80											A	
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	I <sup>2</sup> t	26.560											A <sup>2</sup> s	
Forward Voltage per element @I <sub>F</sub> =3.0A	V <sub>FM</sub>	0.55				0.7		0.85		0.90		0.92	V	
Peak Reverse Current @T <sub>J</sub> = 25°C At Rated DC Blocking Voltage @T <sub>J</sub> = 100°C	I <sub>RM</sub>	0.1						0.05						mA
		10						5						
Typical Junction Capacitance ( Note2)	C <sub>j</sub>	110						70						pF
Typical Thermal Resistance	R <sub>θJL</sub>	16											°C/W	
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +150											°C	
Operating And Storage Temperature Range	T <sub>STG</sub>	-55 to +150											°C	

### Note:

1. Mounted on aluminum substrate PC board with 1.3mm<sup>2</sup> solder pad.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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Fig. 1 Output Current Derating Curve

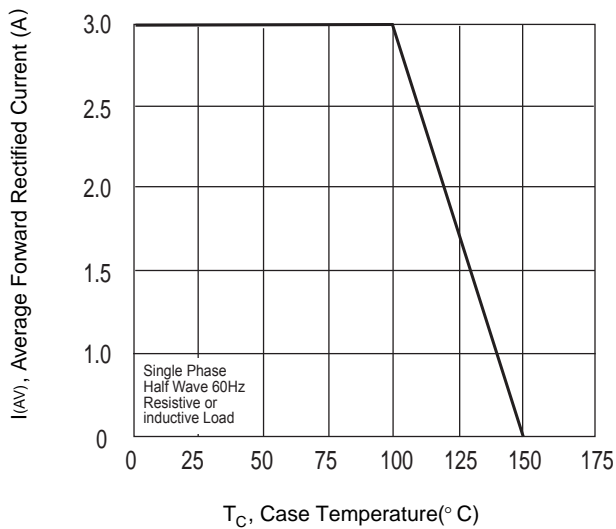


Fig. 2 Typical Forward Characteristics

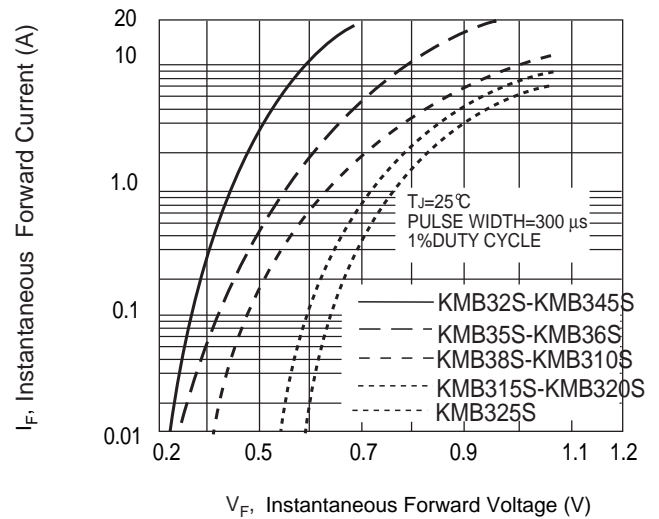


Fig.3 Maximum Peak Forward Surge Current

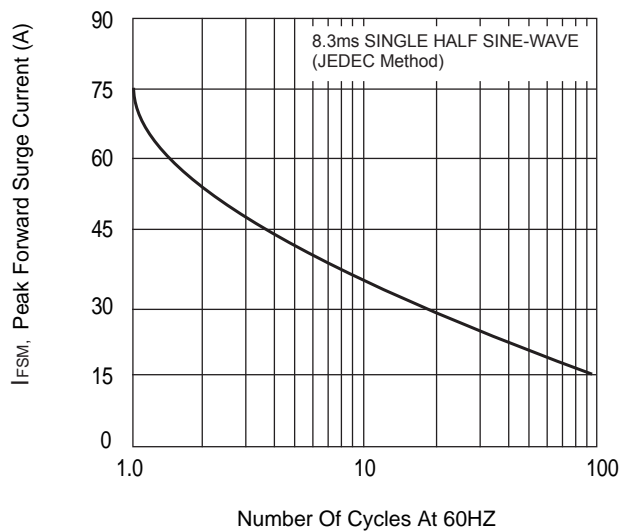


Fig. 4 Typical Junction Capacitance

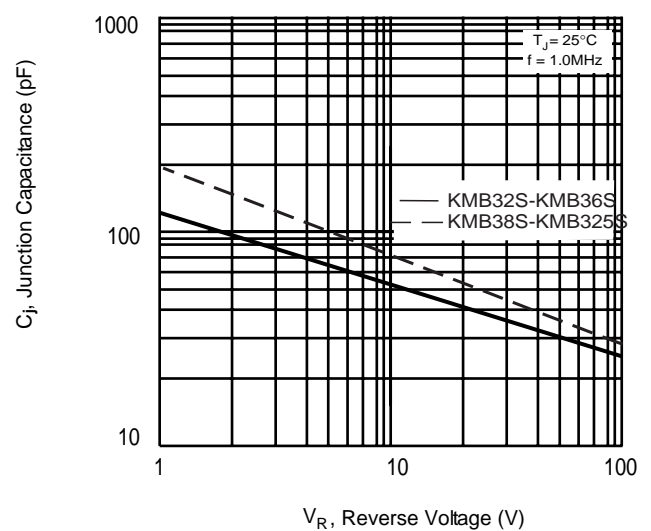


Fig. 5 Typical Reverse Characteristics

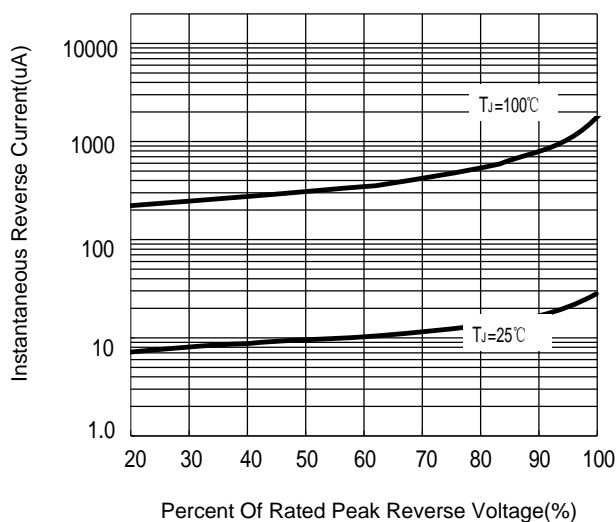
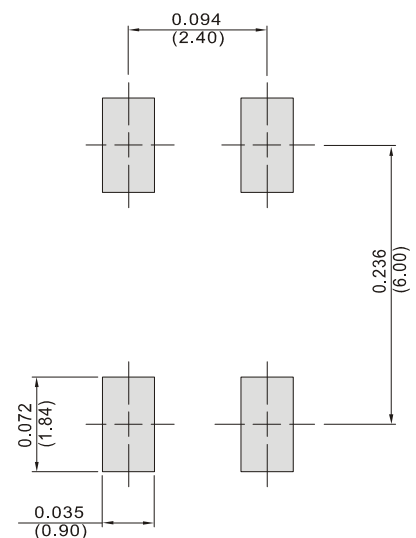


Fig. 6 Mounting Pad Layout





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