



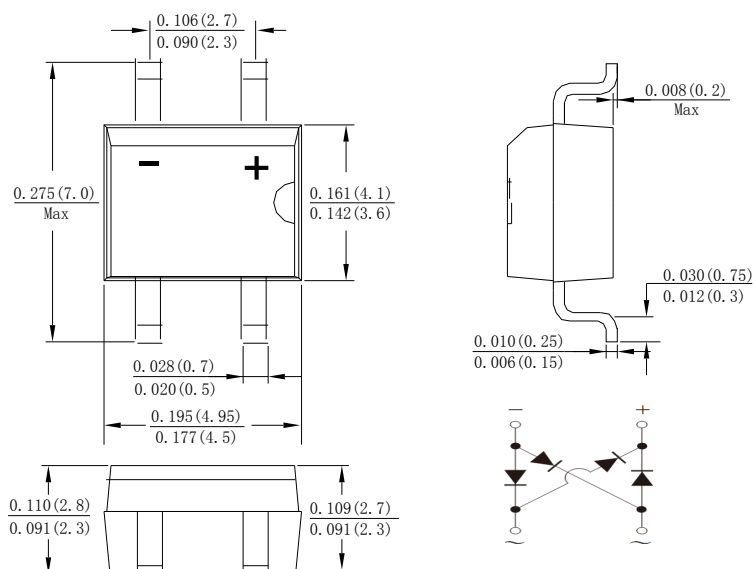
KMB14S

Single Phase 1.0 AMP Surface Mount Schottky Bridge Rectifier

Features

- Schottky Brrier Chip
- Low Power Loss,High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 30A 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

Rating at 25°C ambient temperature unless otherwise specified.

Single phase,half wave,60Hz,resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	KMB14S	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS Voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Average Rectified Output Current @ $T_c=100^{\circ}C$	$I_{F(AV)}$	1.0	A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30	A
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	3.735	A ² s
Forward Voltage @ $I_F=1.0A$	V_{FM}	0.55	V
Peak Reverse Current @ $T_J=25^{\circ}C$	I_R	0.1	mA
At Rated DC Blocking Voltage @ $T_J=100^{\circ}C$		10	
Typical Junction Capacitance (Note 1)	C_J	83	pF
Typical Thermal Resistance	$R_{\theta JA}$	95	$^{\circ}C/W$
	$R_{\theta JC}$	13	
Operating Temperature Range	T_J	-55 to+150	$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150	$^{\circ}C$

Note:

1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C



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Fig. 1 Forward Current Derating Curve

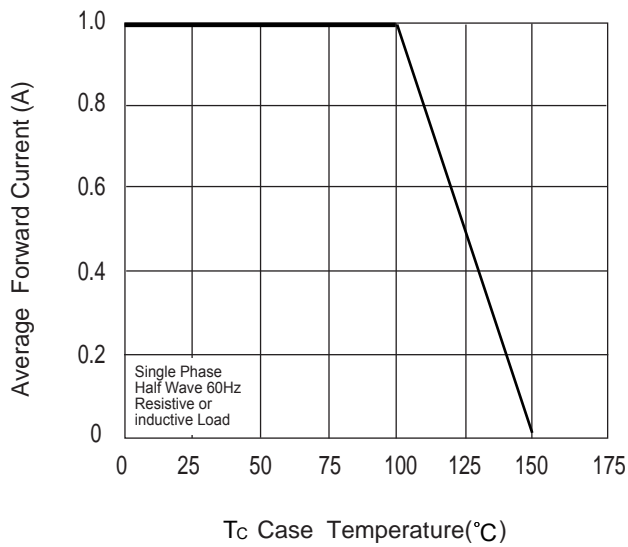


Fig. 2 Typ. Forward Characteristics

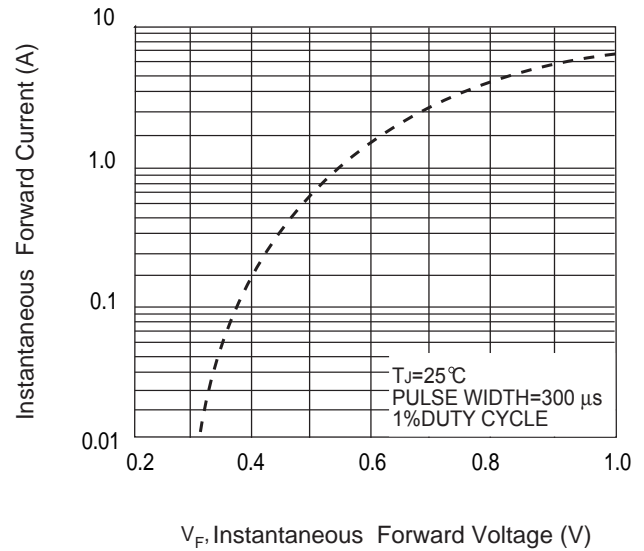


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

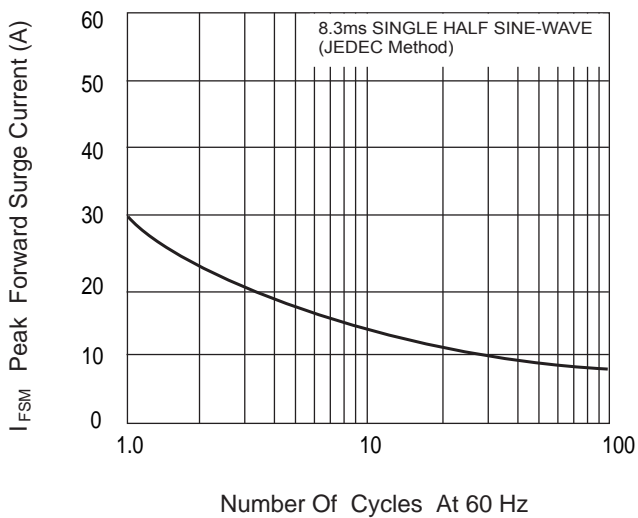


Fig. 4 Typical Reverse Characteristics

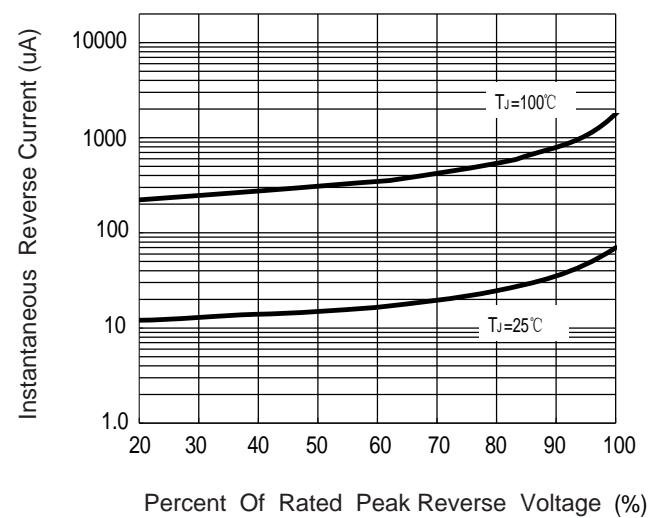
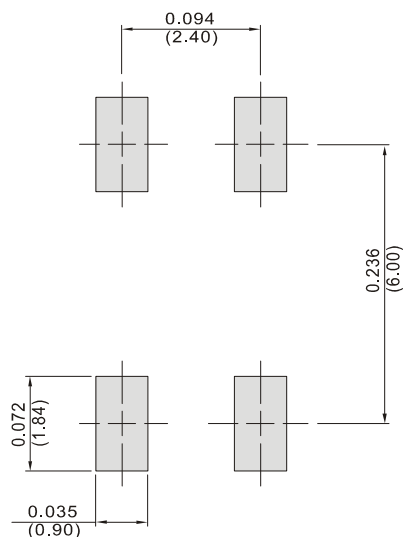


Fig.5 Mounting PAD Layout





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