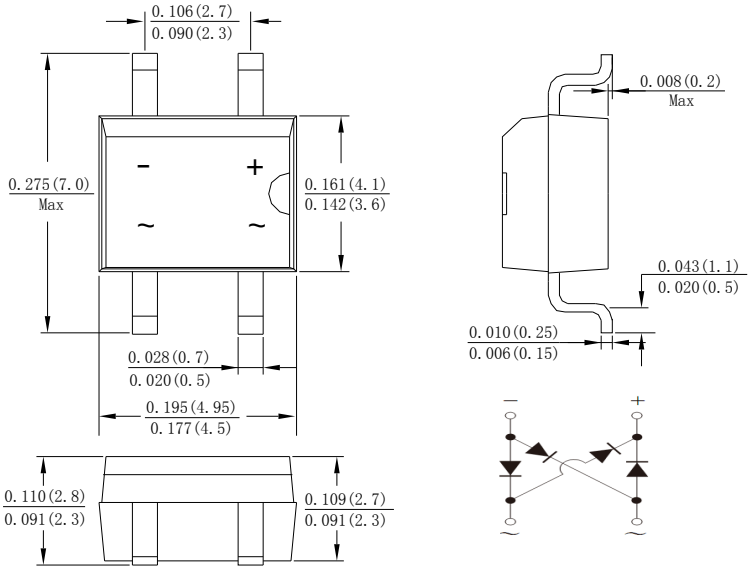
KMB110ST

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 40A 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℃ ambient temperature unless otherwise specified.
Single phase,half wave,60Hz,resistive or inductive load
For capacitive load derate current by 20%

Type Number	SYMBOL	KMB110ST	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS Voltage	V_{RMS}	70	V
Maximum DC Blocking Voltage	V_{DC}	100	V
Average Rectified Output Current @T_C=100℃	$I_{F(AV)}$	1.0	A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	40	A
I^2t Rating for Fusing (t < 8.3ms)	I^2t	6.64	A^2s
Forward Voltage @IF=1.0A	V_{FM}	0.8	V
Peak Reverse Current @T_J =25℃	I_R	0.05	mA
At Rated DC Blocking Voltage @T_J =100℃		5	
Typical Junction Capacitance (Note 1)	C_J	195	pF
Typical Thermal Resistance	$R_{\theta JA}$ $R_{\theta JC}$	95 13	℃/W
Operating Temperature Range	T_J	-55 to+150	℃
Storage Temperature Range	T_{STG}	-55 to +150	℃

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

Fig. 1 Forward Current Derating Curve

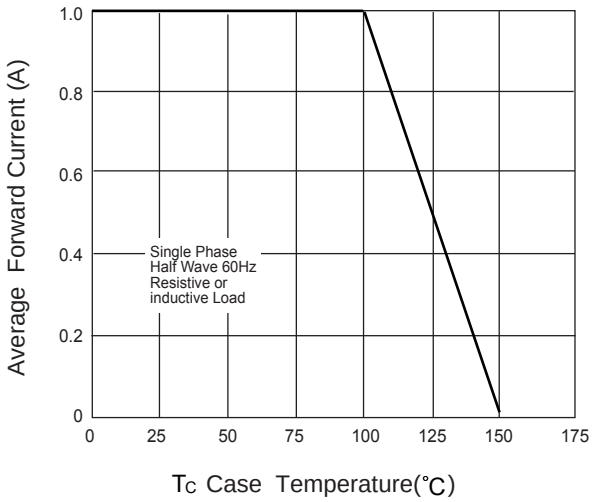


Fig. 2 Typ. Forward Characteristics

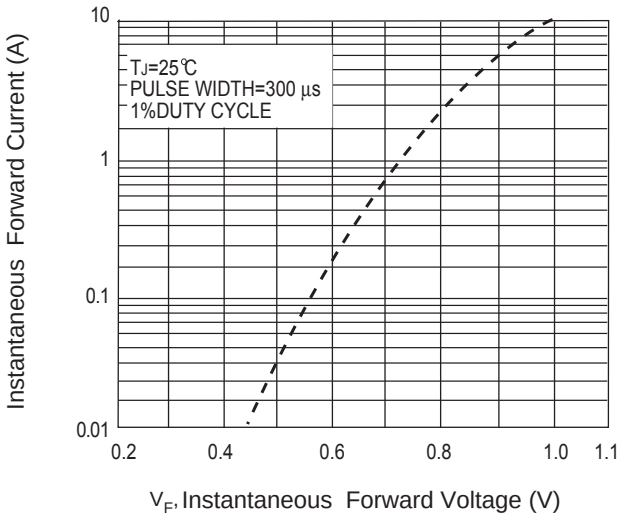


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

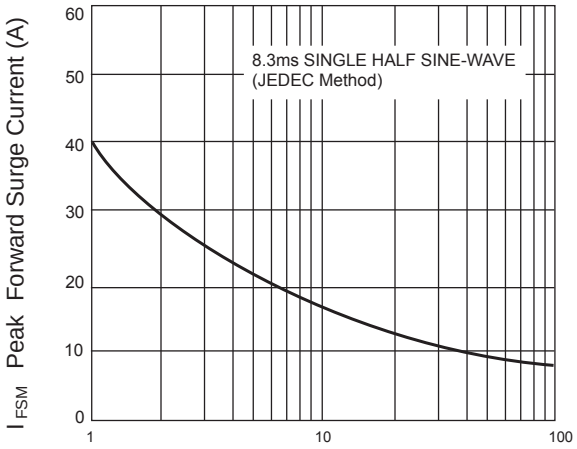


Fig. 4 Typical Reverse Characteristics

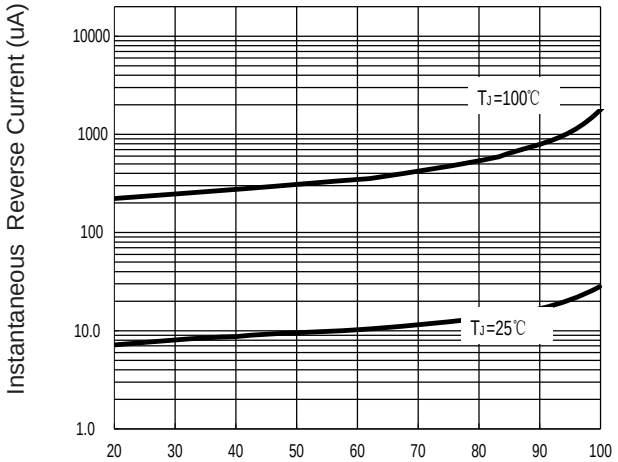
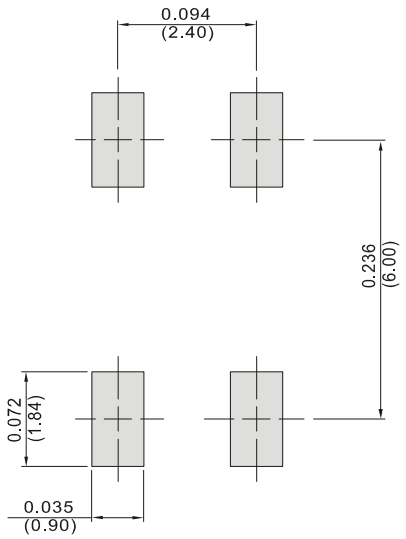


Fig.5 Mounting PAD Layout



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