KMB12J~KMB120J

Surface Mount Schottky Bridge Rectifiers

Features

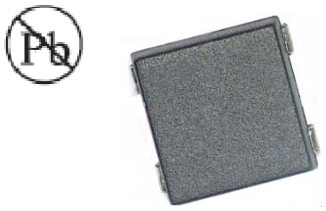
- Schottky Barrier Die Construction
- Low Forward Voltage Drop
- Low Leakage Current
- High Forward Surge Capability
- Designed for Surface Mount Application
- Plastic Material - UL Flammability 94V -O

Mechanical Date

- **Case:** SOF2-4 Molded Plastic
- **Terminals:** Solder plated, Solderable per J-STD-002B and JESD22-B102D
- **Polarity:** As Marked on body
- **Marking:** Type Number
- **Lead Free:** For ROHS/Leadfree Version

Major Ratings and Characteristics

$I_{F(AV)}$	1.0 A
V_{RRM}	20 V to 200 V
I_{FSM}	25 A
I_R	500 μA
V_F	0.55,0.70,0.85,0.95 V
T_j max.	125 °C



S0F2-4J

Maximum Ratings & Thermal Characteristics (T_A = 25 °C unless otherwise noted)

Single Phase,half wave,60Hz,resistive or inductive load.

For capacitive load,derate current by 20%.

Items	Symbol	KMB 12J	KMB 14J	KMB 16J	KMB 18J	KMB 100J	KMB 150J	KMB 120J	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	20	40	60	80	100	150	200	V
Maximum RMS voltage	V_{RMS}	14	28	42	56	70	105	140	V
Maximum DC blocking voltage	V_{DC}	20	40	60	80	100	150	200	V
Maximum average forward rectified current	$I_{F(AV)}$	1.0[1)]							A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	25							A
Operating junction and storage temperature range	T_J, T_{STG}	–55 to +125							℃

1):Mounted on glass epoxy P.C.B with 1.2×1.5mm^2 pads。

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

Items	Test conditions	Symbol	KMB 12J	KMB 14J	KMB 16J	KMB 18J	KMB 100J	KMB 150J	KMB 120J	UNIT
Instantaneous forward voltage	I_F=1.0A[2)]	V_F	0.55		0.70	0.85		0.95		V
Reverse current	T_A = 25 ℃	I_R	0.5							mA
	T_A = 100℃		10							

2):Pulse test: 300μS pulse width,1% duty cycle.

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Characteristic Curves (T_A=25 ℃ unless otherwise noted)

Fig.1 Forward Current Derating Curve

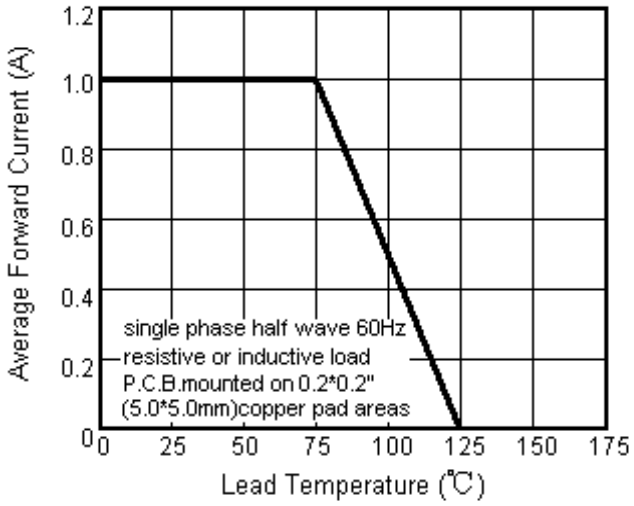


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

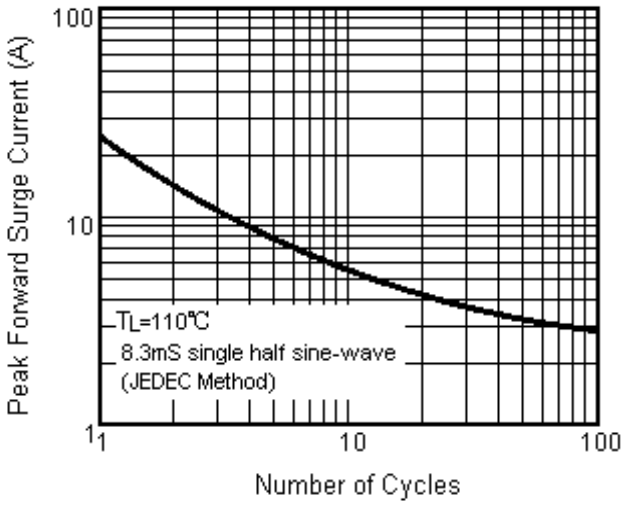


Fig.3 Typical Instantaneours Forward Characteristics

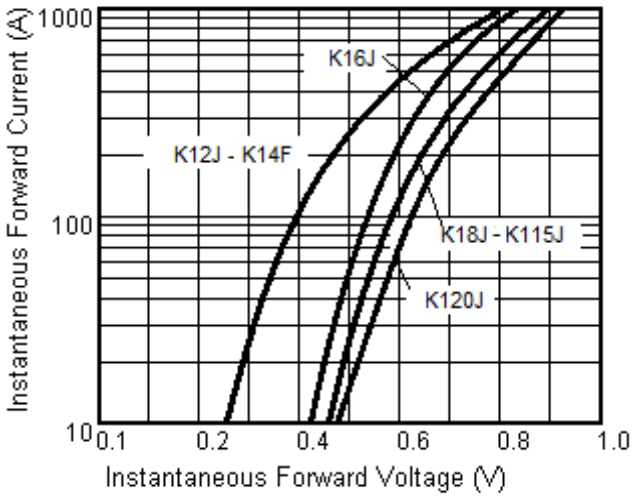
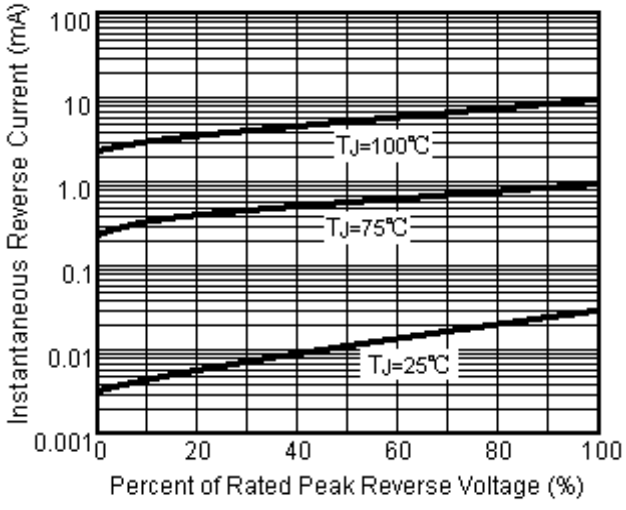


Fig.4 Typical Reverse Characteristics

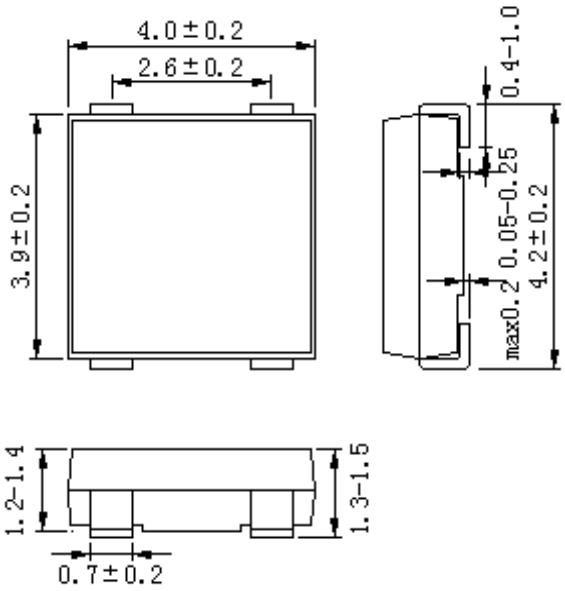


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KMB12J~KMB120J

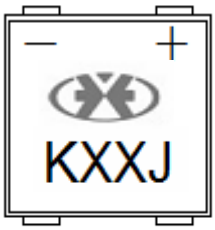
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Package Outline



Marking Code

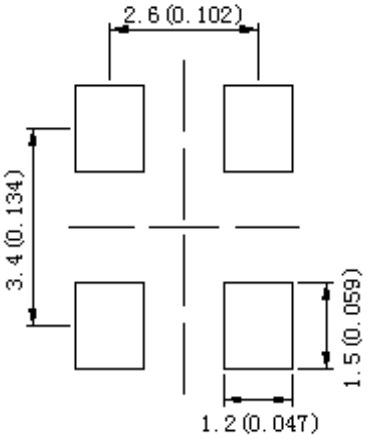
SOF2-4J



Type	Code
KMB12J	K12J
KMB14J	K14J
KMB16J	K16J
KMB18J	K18J
KMB110J	K110J
KMB115J	K115J
KMB120J	K120J

- =Trademark;
- KXXJ =Marking Code, Product Specification,See the table;
  K=Schottky bridge rectifier; XX =Product Specification.

Soldering Pad



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