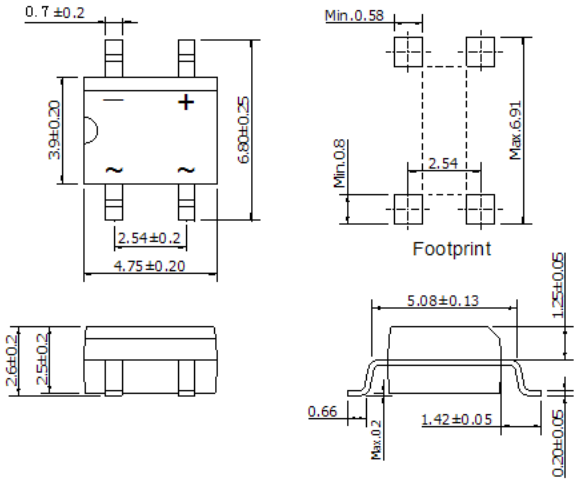
KMB14S THRU KMB120S

Schottky Bridge Rectifier

Features

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 260°/10 seconds at 5 lbs., (2.3kg) tension
- Small size, simple installation
- High surge current capability

MBS



Mechanical Data

Case : JEDEC MBS Molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750,Method 2026
Polarity : Polarity symbol marking on body
Mounting Position : Any
Weight : 0.0035 ounce, 0.1 grams

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unlss otherwise specified.

Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Parameter	SYMBOLS	KMB14S	KMB16S	KMB18S	KMB110S	KMB120S	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	40	60	80	100	200	V
Maximum RMS voltage	V_{RMS}	28	42	56	70	140	V
Maximum DC blocking voltage	V_{DC}	40	60	80	100	200	V
Maximum average forward rectified current	$I_{F(AV)}$	1.0					A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30					A
Maximum instantaneous forward voltage at 1A	V_F	0.55	0.70	0.85			V
Maximum DC reverse current T_A=25°C at rated DC blocking voltage T_A=100°C	I_R	0.3 10		0.1 2			mA
Typical junction capacitance at 4.0V,1.0MHz	C_j	110	80				pF
Typical thermal resistance	$R\theta_{JA}$ $R\theta_{JL}$	100 20					°C/W
Operating temperature range	T_J	-55 to +150		-55 to +175			°C
storage temperature range	T_{STG}	-55 to +150					°C

NOTE:1.Measured at 1MHz and applied reverse voltage of 4 V D.C.
2.Mounted on glass epoxy P C board with 4 X (5X5mm) copper pad.

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Ratings And Characteristic Curves

Fig.1 Forward Current Derating Curve

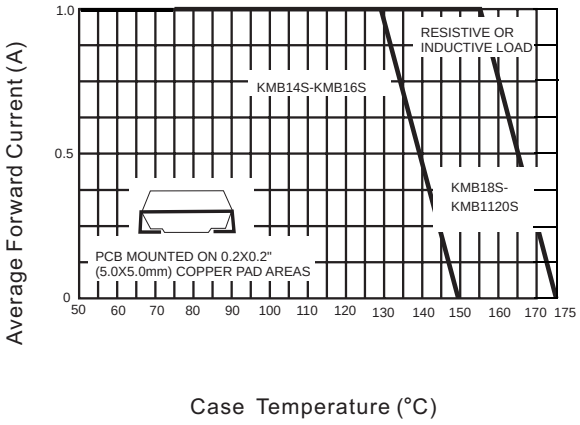
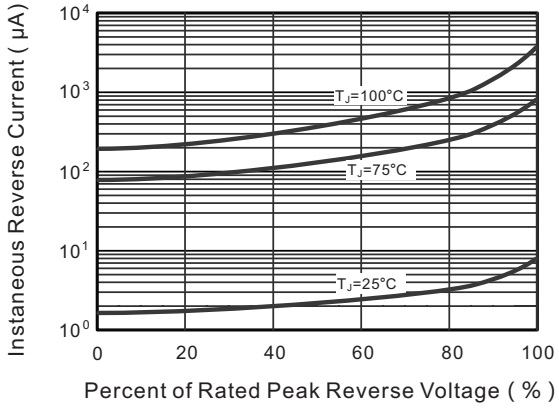


Fig.2 Typical Reverse Characteristics



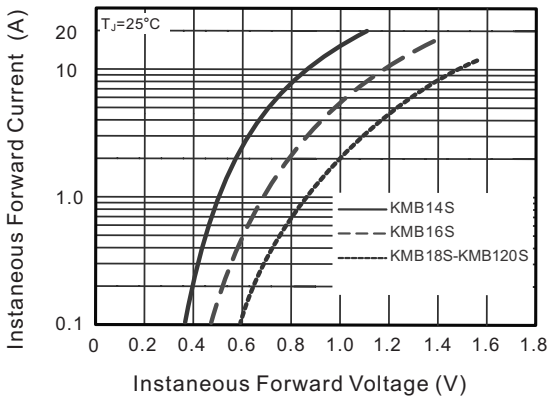


Fig.4 Typical Junction Capacitance

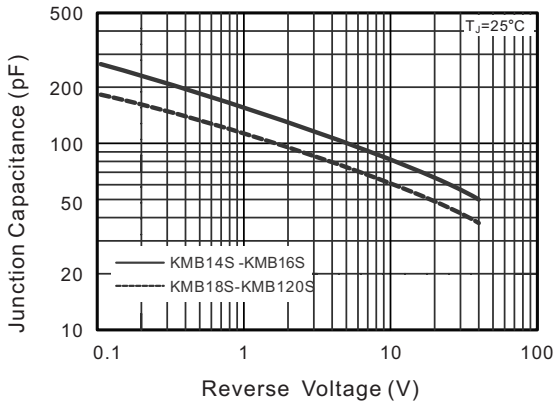


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

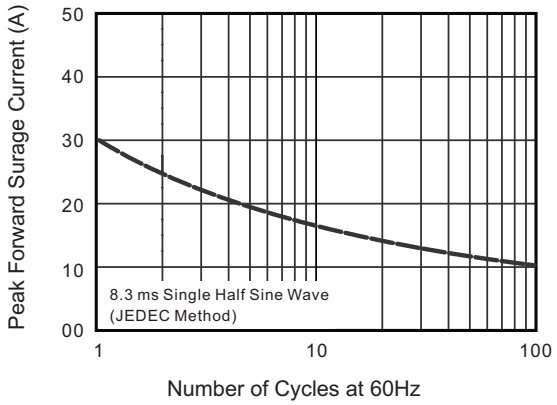


Fig.6- Typical Transient Thermal Impedance