

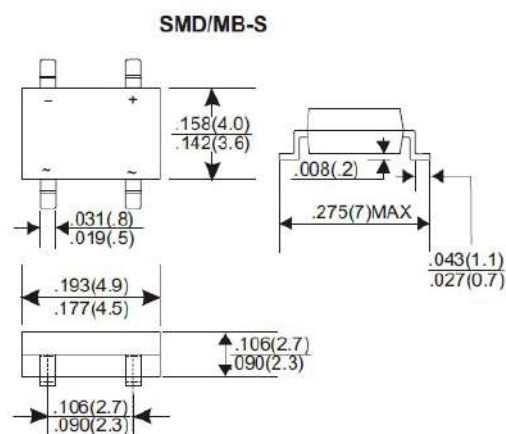
SINGLE PHASE 1.0AMP SURFACE MOUNT SCHOTTKYBRIDGE RECTIFIER

Features:

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Low forward voltage drop

Mechanical Data:

- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.098 grams
- * Both normal and Pb free product are available:
- * Normal: 80~95%Sn, 5~20%Pb
- * Pb free: 99.5%Sn above can meet RoHS environment substance directive request



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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	KMB12S	KMB14S	KMB16S	KMB18S	KMB110S	KMB120S	UNITS
Maximum Recurrent Peak Reverse Voltage	20	40	60	80	100	200	V
Maximum RMS Voltage	14	28	42	56	70	140	V
Maximum DC Blocking Voltage	20	40	60	80	100	200	V
Maximum Average Forward Rectified Current See Fig.1	1.0						A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	30						A
Maximum Instantaneous Forward Voltage at 2.0A	0.50		0.70	0.85			V
Maximum DC Reverse Current Ta=25℃ at Rated DC Blocking Voltage Ta=100℃	0.05						mA
	5						mA
Typical Junction Capacitance (Note1)	170						pF
Typical Thermal Resistance R JA (Note 2)	70						℃/W
Operating Temperature Range Tj	-65 — +150						℃
Storage Temperature Range TSTG	-65 — +150						℃

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES (KMB12S THRU KMB120S)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

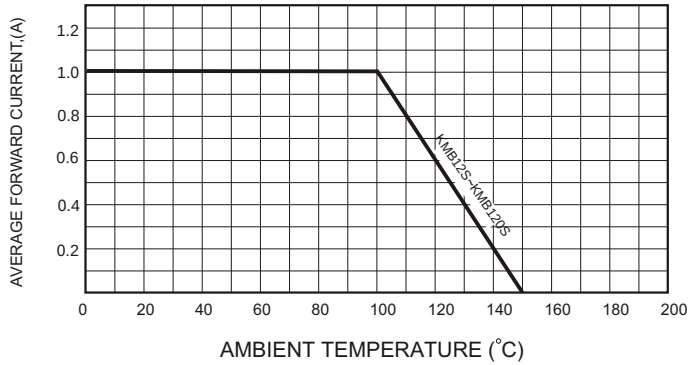


FIG.2-TYPICAL FORWARD CHARACTERISTICS

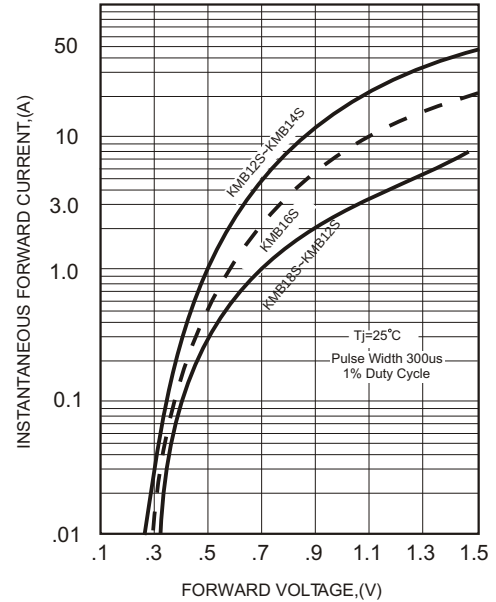


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

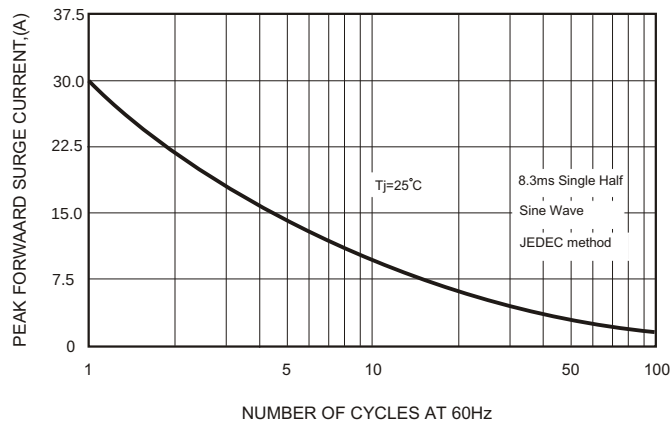


FIG.4-TYPICAL JUNCTION CAPACITANCE

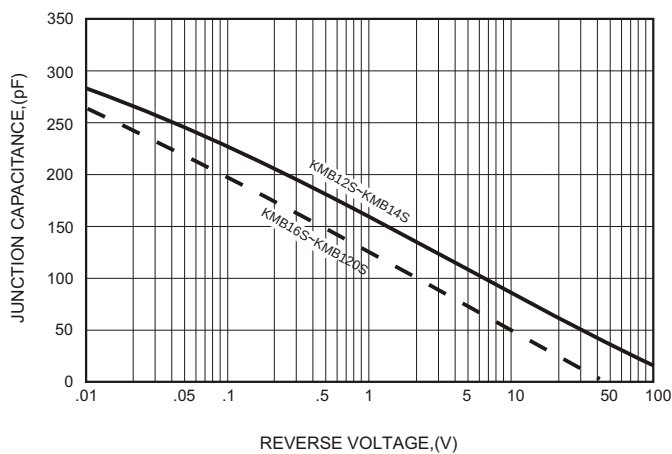


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

