

KMB22S THRU KMB220S



SINGLE PHASE 2.0AMP SURFACE MOUNT SCHOTTKY BRIDGE 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: 99Sn above can meet RoHS environment substance directive request

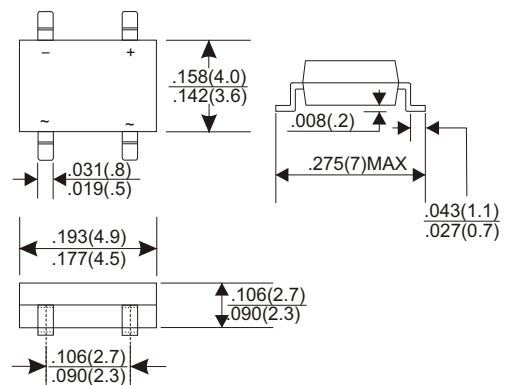
VOLTAGE RANGE

20 to 200 Volts

CURRENT

2.0 Ampere

SMD/MB-S



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	KMB22S	KMB24S	KMB26S	KMB28S	KMB210S	KMB220S	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	2.0						A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	50						A
Maximum Instantaneous Forward Voltage at 2.0A	0.55	0.70	0.85			V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	0.05			10			mA
Typical Junction Capacitance (Note1)	170			°C/W			
Typical Thermal Resistance R _{JA} (Note 2)	70			°C			
Operating Temperature Range T _J	-65 — +125			-65 — +150			°C
Storage Temperature Range T _{STG}	-65 — +150						°C

NOTES:

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

RATING AND CHARACTERISTIC CURVES (KMB22S THRU KMB220S)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

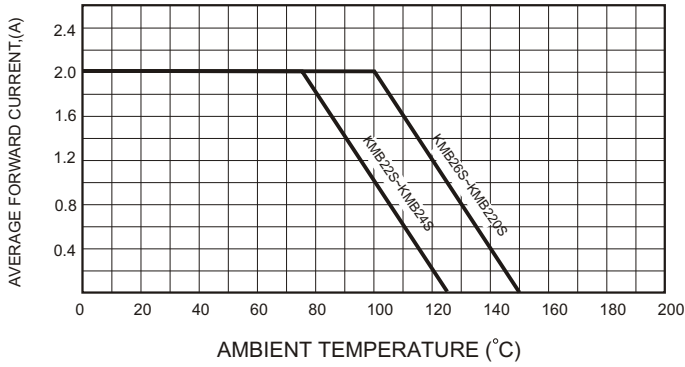


FIG.2-TYPICAL FORWARD CHARACTERISTICS

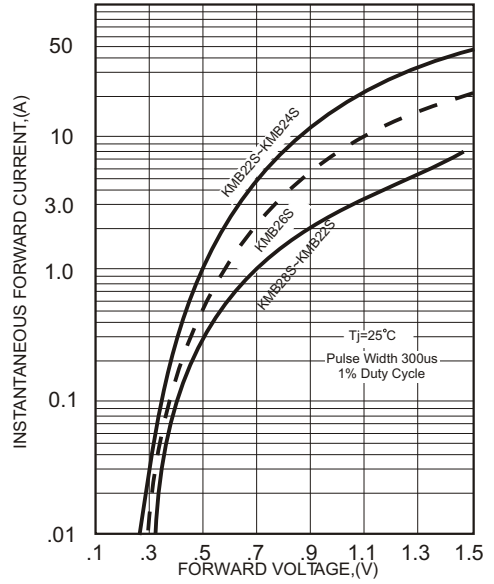


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

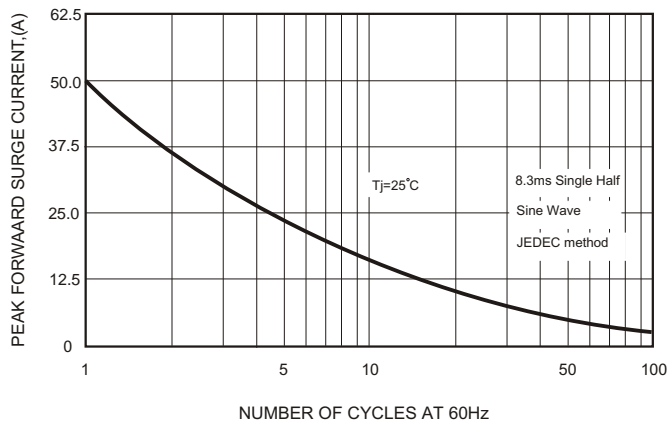


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

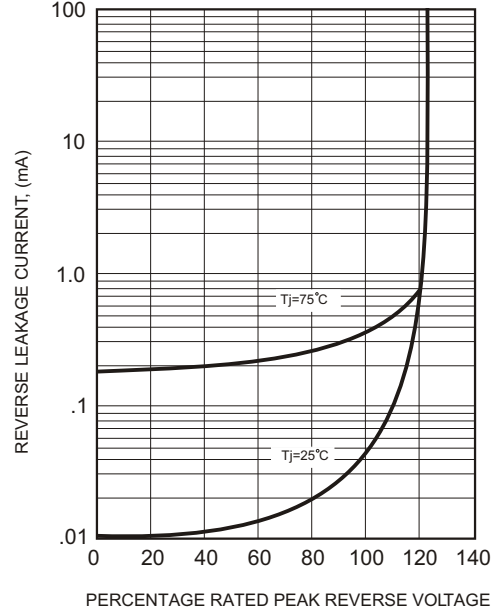


FIG.4-TYPICAL JUNCTION CAPACITANCE

