

# SINGLE PHASE 2.0 AMP SURFACE MOUNT SCHOTTKY BRIDGE RECTIFIER

## Features:

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

## VOLTAGE RANGE

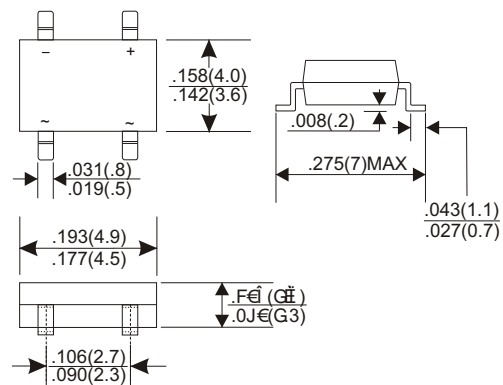
20 to 200 Volts

## CURRENT

2.0 Ampere

## 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 products are available:
- \* Normal: 80~95%Sn, 5~20%Pb
- \* Pb free: 99Sn 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	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	Ta=25°C		0.05				mA
	Ta=100°C		10				mA
Typical Junction Capacitance (Note1)	170						pF
Typical Thermal Resistance R <sub>JA</sub> (Note 2)	70						C/W
Operating Temperature Range T <sub>J</sub>	-65	+125			-65	+150	°C
Storage Temperature Range T <sub>STG</sub>			-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

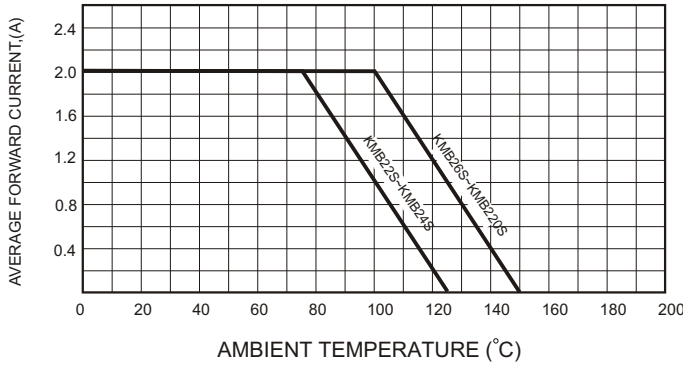


FIG.2-TYPICAL FORWARD CHARACTERISTICS

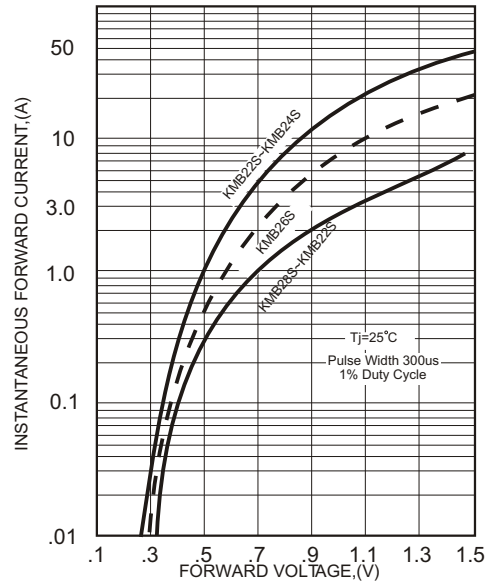


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

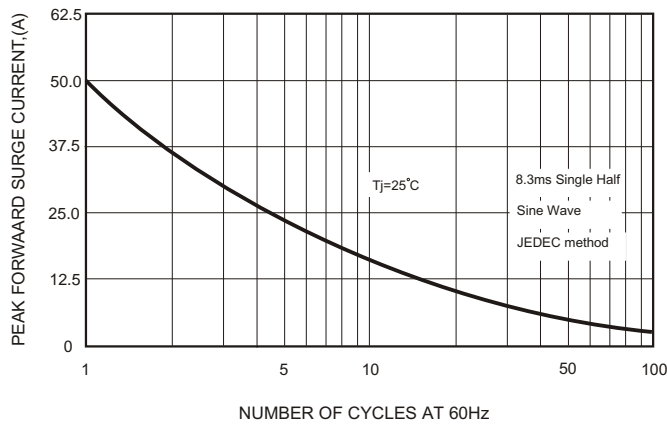


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

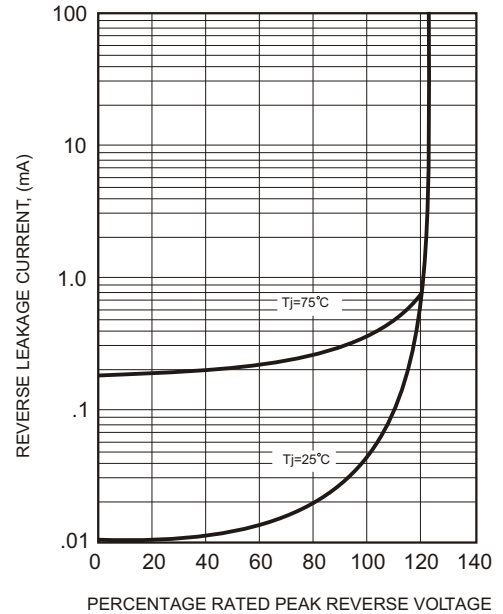


FIG.4-TYPICAL JUNCTION CAPACITANCE

