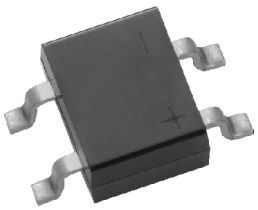
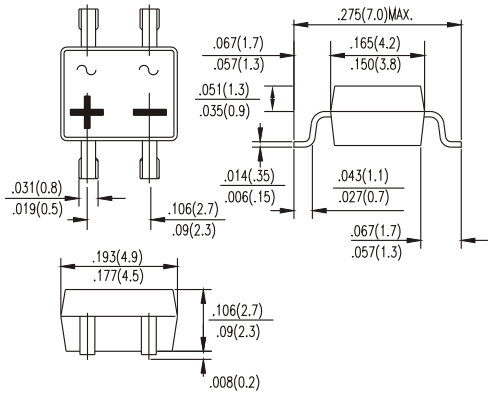
KB12S thru KB18S

SURFACE MOUNT SCHOTTKY BARRIER BRIDGE RECTIFIERS

VOLTAGE- 20 to 80 Volts CURRENT- 1.0 Amperes





FEATURES

- Plastic package has Underwriters Laboratory Flammability Classition 94V-O
- Forsurface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier.majority carrier conduction
- Low power loss.high efficiency
- High surge capacity
- High current capacity,low VF
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed: 260°C /10 seconds at terminals
- Pb free product at av : 99% Sn above meet RoHS environment substnce directive request

MECHANICAL DATA

- Terminas:Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode
- Standard packagng: 12mm tape (EIA-481)
- Weight : 0.008 ounce,0.22 gram.

MAXIMUM RATIXGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.
Resistive or inductive load

	SYMBOLS	KB12S	KB14S	KB16S	KB18S	UNITS
Marking Code		KB12S	KB14S	KB16S	KB18S	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	40	60	80	V
Maximum RMS Voltage	V_{RMS}	14	28	42	56	V
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	V
Maximum Average Forward Rectified Current at TL (See figure 1)	$I_{(AV)}$	1.0				A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30.0				A
Maximum Instantaneous Forward Voltage at 1.0A (Note 1)	V_F	0.50		0.70	0.85	V
Maximum DC Reverse Current (Note 1) Ta= 25°C at Rated DC Blocking Voltage Ta=100°C	I_R	0.5 20.0				mA
Maximum Thermal Resistance(Note 2)	$R_{\theta JL}$ $R_{\theta JA}$	28.0 88.0				°C/W
Operating and Storage Temperature Range TJ	T_J	-50 to +150				°C
Storage Temperature Range	T_{STG}	-55 to +150				°C

NOTES:

A.Pulse Test with PW =300μsec, 2% Duty Cycle.

B.Mounted on P.C. Board with 5.0mm2 (.013mm thick) copper pad areas.

KB12S thru KB18S

SURFACE MOUNT SCHOTTKY BARRIER BRIDGE RECTIFIERS

RATINGAND CHARACTERISTIC CURVES

KB12S THRU KB18S

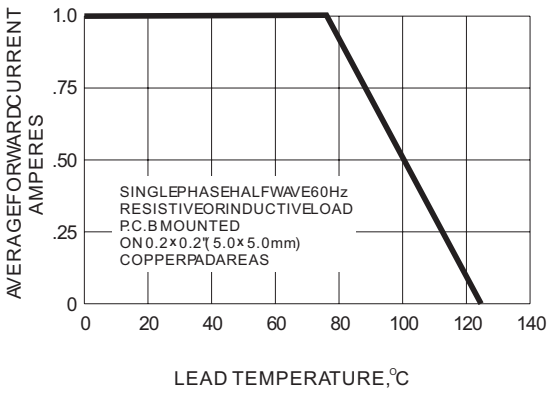


Fig.1-FORWARD CURRENTDERATING CURVE

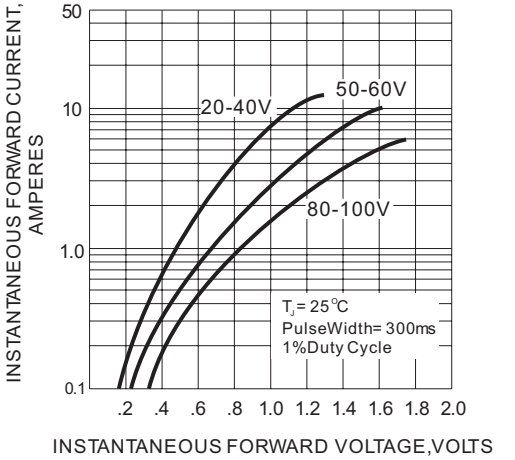


Fig.2-TYPICALINSTANTANEOUSFORWARD CHARACTERISTIC

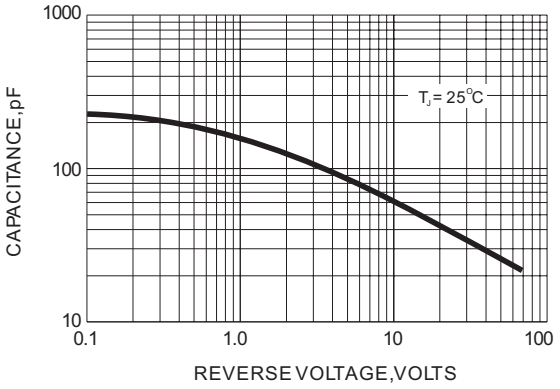


Fig.3-TYPICAL JUNCTION CAPACITANCE

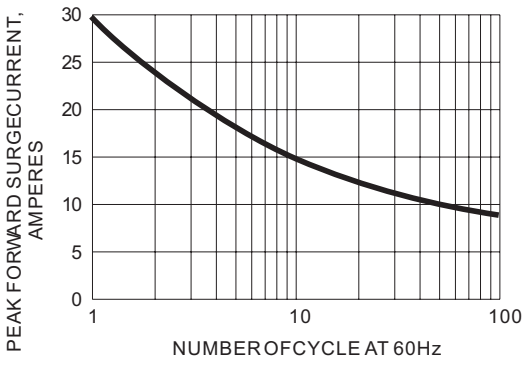


Fig.4-MAXIMUMNON-REPETITIVE PEAK FORWARD SURGECURRENT