



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 200 Volts CURRENT 3.0 Amperes

FEATURES

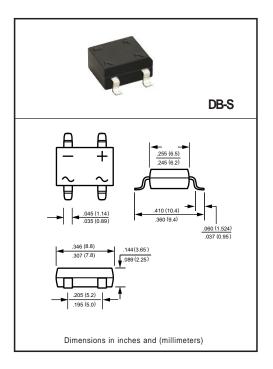
- * Good for automation insertion
- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded
- * Glass passivated device
- * Polarity symbols molded on body
- * Mounting position: Any

MECHANICAL DATA

* Epoxy: Device has UL flammability classification 94V-O

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

| RATINGS | SYMBOL | KDB3200S | UNITS | |
|--|---------------------|--------------|------------------|--|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 200 | Volts | |
| Maximum RMS Voltage | | 140 | Volts | |
| Maximum DC Blocking Voltage | V _{DC} | 200 | Volts | |
| Max Avg Forword Rectify Current at Ambient Temp needs To be corrected to Lead Temperature,TL | Io | 3.0 | Amps | |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | I _{FSM} | 80 | Amps | |
| Typical Current Square Time | I ² T | 26.5 | A ² S | |
| Typical Thermal Resistance (Note 1) | Røja | 55 | 00.00 | |
| Typical Thermal Resistance (Note 1) | R _{θJL} 17 | | °C/W | |
| Typical Junction Capacitance (Note 2) | CJ | 200 | pF | |
| Operating Temperature Range | TJ | -55 to + 150 | ۰C | |
| Storage Temperature Range | T _{STG} | -55 to + 150 | ۰C | |

ELECTRICAL CHARACTERISTICS(@Ta=25 °C unless otherwise noted)

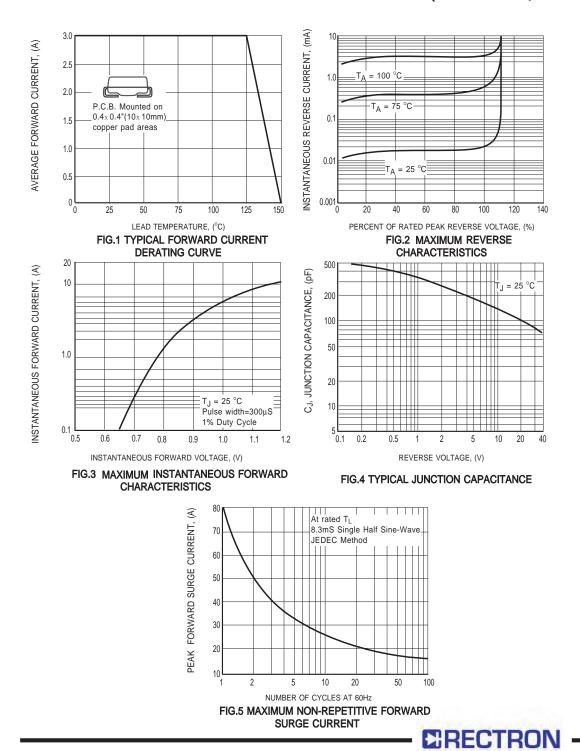
| CHARACTERISTICS | | SYMBOL | KDB3200S | UNITS |
|---------------------------------------|-------------------------|----------------|----------|-------|
| Maximum Instantaneous Forward Voltage | e at 3.0A DC | V _F | .85 | Volts |
| Maximum Average Reverse Current | @T _A = 25°C | 1- | 20 | uA |
| at Rated DC Blocking Voltage | @T _A = 100°C | IR | 4 | mΑ |

NOTES: 1. Thermal Resistance: Mounted on PCB.

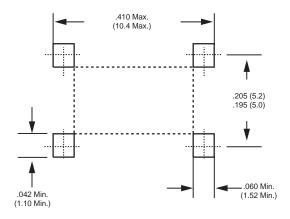
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

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RATING AND CHARACTERISTICS CURVES (KDB3200S)



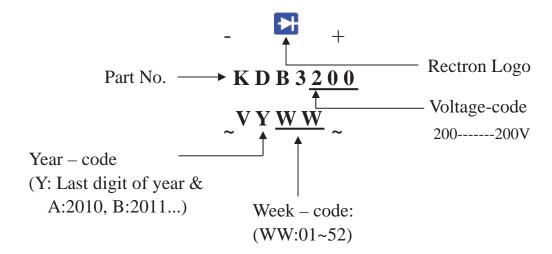
Mounting Pad Layout



Dimensions in inches and (millimeters)



Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

| PACKAGE | PACKING CODE | EA PER REEL | EA PER INNER BOX | COMPONENT SPACE (mm) | TAPE SPACE (mm) | REEL DIA (mm) | CARTON SIZE (mm) | EA PER CARTON | GROSS WEIGHT(Kg) |
|---------|-----------------|----------------|------------------------|----------------------------|--------------------|------------------|---------------------|------------------|---------------------|
| DB-S | -T/W | 1,000 | 1,000 | 9.5 | 52 | 330 | 360*355*360 | 8,000 | 9.8 |



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