

**SURFACE MOUNT
GLASS PASSIVATED BRIDGE RECTIFIERS**

REVERSE VOLTAGE - 50 to 1000 Volts
FORWARD CURRENT - 1.0 Amperes

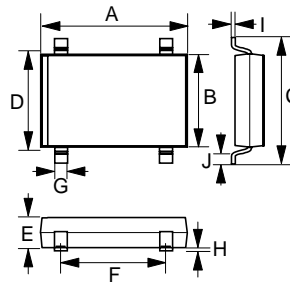
FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop high current capability.
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead Pb/Sn copper
- The plastic material has UL flammability classification 94V-0
- UL recognized file # E95060

MECHANICAL DATA

- Polarity :As marked on Body
- Weight : 0.02 ounces, 0.38 grams
- Mounting position : Any

DF-S



| DF-S | | |
|------|------|-------|
| DIM. | MIN. | MAX. |
| A | 8.20 | 8.50 |
| B | 6.20 | 6.50 |
| C | - | 10.30 |
| D | 7.40 | 7.90 |
| E | 2.40 | 2.60 |
| F | 5.00 | 5.20 |
| G | 1.14 | - |
| H | .076 | .330 |
| I | 0.22 | 0.30 |
| J | 1.02 | 1.53 |

All Dimensions in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

| CHARACTERISTICS | SYMBOL | DF005S | DF01S | DF02S | DF04S | DF06S | DF08S | DF10S | UNIT |
|--|------------------|-------------|-------|-------|-------|-------|-------|-------|------------------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | VRMS | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | VDC | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current @TA=40°C | I(AV) | 1.0 | | | | | | | A |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD) | IFSM | 50 | | | | | | | A |
| Maximum forward Voltage at 1.0A DC | VF | 1.1 | | | | | | | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ=25°C @TJ=125°C | IR | 10 500 | | | | | | | uA |
| I ² t Rating for fusing (t < 8.3ms) | I ² t | 10.4 | | | | | | | A ² S |
| Typical Junction Capacitance per element (Note 1) | CJ | 25 | | | | | | | pF |
| Typical Thermal Resistance (Note 2) | RθJA | 40 | | | | | | | °C/W |
| Operating Temperature Range | TJ | -55 to +150 | | | | | | | °C |
| Storage Temperature Range | TSTG | -55 to +150 | | | | | | | °C |

NOTES : 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Thermal resistance from junction to ambient mounted on P.C.B with 0.5x0.5"(13x13mm) copper pads.

REV. 2, 01-Dec-2000, KBDA01

