

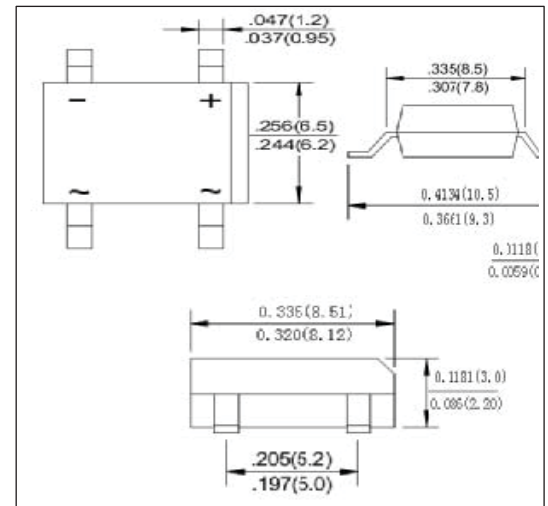
2A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

FEATURES :

- Glass Passivated Die Construction
- Low leakage
- Ideal for printed circuit board
- Surge overload rating-50A peak
- Designed for Surface Mount Application
- Plastic Material-UL Flammability 94V-0

MECHANICAL DATA

- Case:Reliable low cost construction utilizing molded plastic technique
- Terminals:Plated Leads Solderable per MIL STD-202, Method208
- Polarity:As Marked on Case
- Mounting Position:Any
- Marking:Type Number



Maximum Ratings and Electrical Characteristics @TA=25 unless otherwise specified

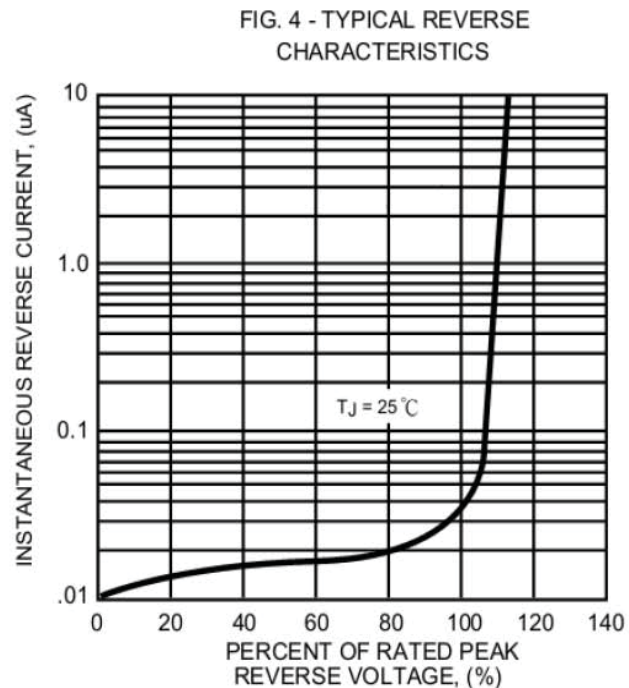
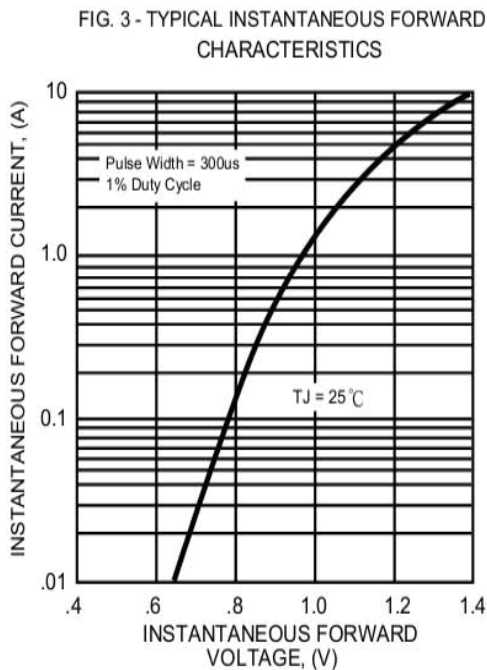
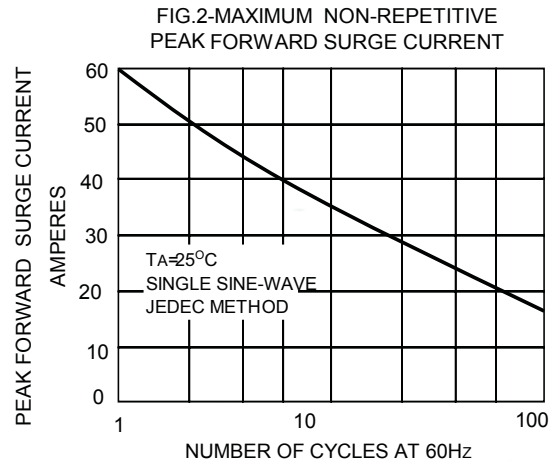
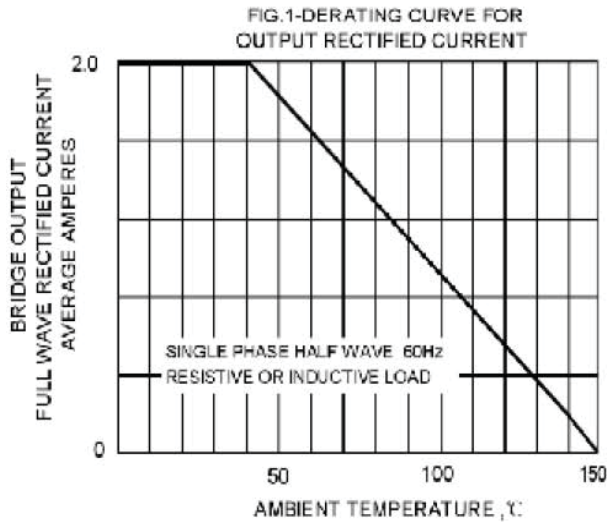
- Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Parameter | Symbol | DF2005S | DF201S | DF202S | DF204S | DF206S | DF208S | DF20S | UNITS |
|--|-----------------|-------------|--------|--------|--------|--------|--------|-------|---------------------------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC blocking Voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average forward output rectified current @ $T_A=40^\circ\text{C}$ | $I(AV)$ | 2 | | | | | | | A |
| Peak forward surge current 8.3ms single sine-wave superimposed on rated load (JEDEC I_{FSM} Method) | I_{FSM} | 60 | | | | | | | A |
| Maximum instantaneous forward voltage drop per diode @2.0 A | VF | 1.1 | | | | | | | V |
| Maximum DC reverse current at $T_A=25^\circ\text{C}$ rated DC blocking voltage per leg $T_A=125^\circ\text{C}$ | IR | 5.0 500 | | | | | | | uA |
| Typical thermal resistance per leg (Note1) | $R_{\theta JA}$ | 40 15 | | | | | | | $^\circ\text{C}/\text{W}$ |
| Operating junction temperature range | TJ | -55 to +150 | | | | | | | $^\circ\text{C}$ |
| Storage temperature Range | Tstg | -55 to +150 | | | | | | | $^\circ\text{C}$ |

- Note:**
- 1.Mounted on glass epoxy PC board with 1.3mm² solder pad.
 - 2.Mounted on aluminum substrate PC board with 1.3mm² solder pad.
 - 3.Measured at 1.0MHz and applied reverse of 4.0V D.C.

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RATING AND CHARACTERISTIC CURVES DF2005S - DF20S



Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.