

DF206S - DF210S

PRV : 600 - 1000 Volts
Io : 2.0 Ampere

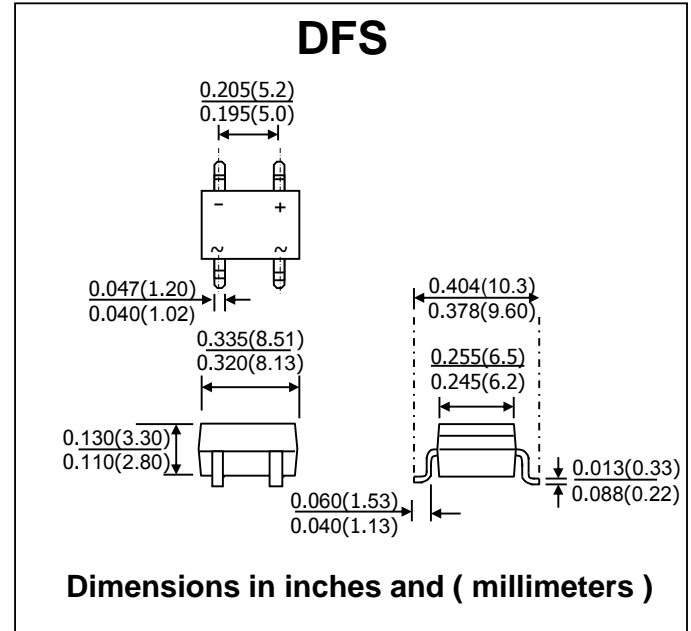
FEATURES :

- * Glass passivated chip
- * High surge forward current capability
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : Molded plastic
- * Epoxy : UL94V-0 rate flame retardant
- * Terminals : Leads solderable per MIL-STD-202, method 208 guaranteed
- * Mounting position : Any

SURFACE MOUNT BRIDGE RECTIFIERS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified. 60 Hz, resistive or inductive load.

| RATING | SYMBOL | DF206S | DF210S | UNIT |
|--|-----------------|---------------|--------|--------------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 600 | 1000 | V |
| Maximum RMS Voltage | V_{RMS} | 420 | 700 | V |
| Maximum DC Blocking Voltage | V_{DC} | 600 | 1000 | V |
| Maximum Average Forward Output Rectified Current at $T_a = 40\text{ }^\circ\text{C}$ | $I_{F(AV)}$ | 2.0 | | A |
| Maximum Peak Forward Surge Current Single half sine wave Superimposed on rated load (JEDEC Method) | I_{FSM} | 60 | | A |
| Current Squared Time at $t < 8.3\text{ ms.}$ | I^2t | 15 | | A ² S |
| Maximum Instantaneous Forward Voltage per element at $I_F = 1.0\text{ A}$ | V_F | 1.1 | | V |
| Peak Reverse Current $V_{RM} = V_{RRM}$ | I_R | 10.0 | | μA |
| Typical Thermal Resistance | $R_{\theta JA}$ | 68 | | $^\circ\text{C/W}$ |
| Typical Thermal Resistance | $R_{\theta JL}$ | 15 | | $^\circ\text{C/W}$ |
| Junction and Storage Temperature Range | T_J, T_{STG} | - 55 to + 150 | | $^\circ\text{C}$ |

Notes : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0VDC

RATING AND CHARACTERISTIC CURVES (DF206S - DF210S)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

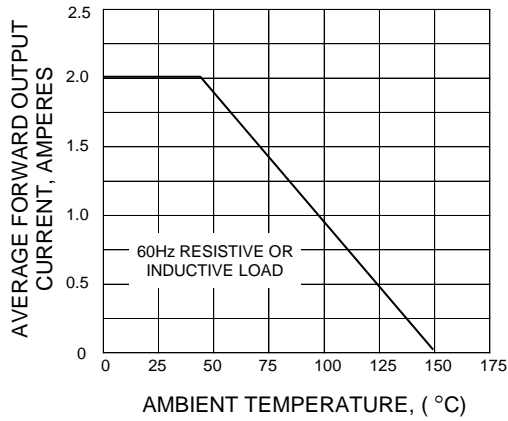


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

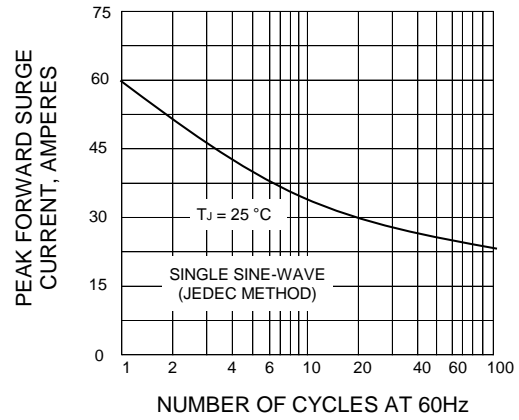


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

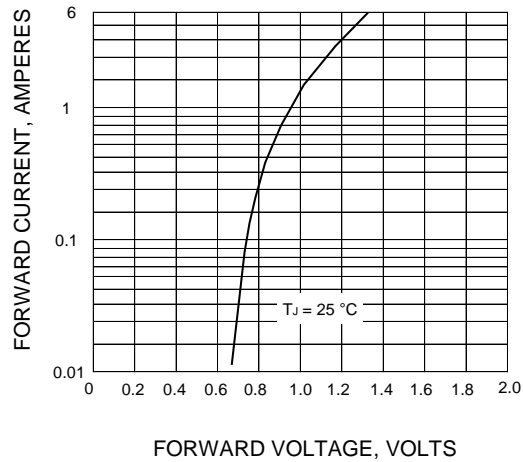


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

