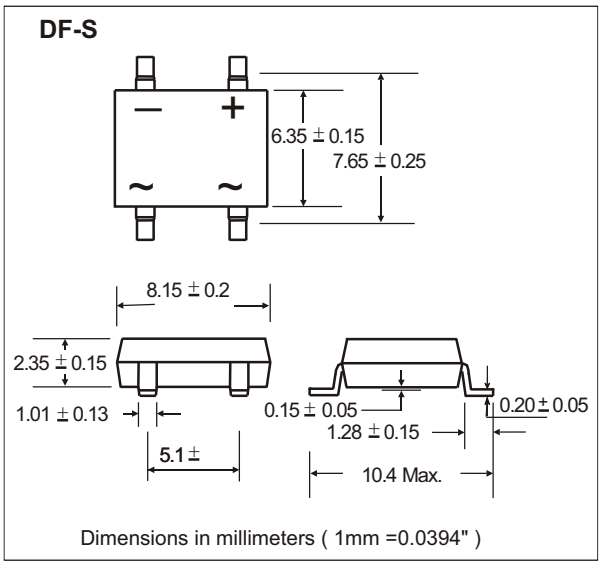
1.0A SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

FEATURES

- The plastic material used carries Underwriters
- Laboratory flammability recognition 94V-0
- Surge overload ratings to 30 amperes
- Ideal for printed circuit board application
- High temperature soldering guaranteed 260 C /5 seconds at 5 lbs (2.3kg) tension



MECHANICAL DATA

- Case: Molded plastic
- Terminals: Plated leads solderable per MIL-STD-202, Method 208
- Polarity: Marked on body
- Mounting Position: Any
- Weight:0.33 grams (approx)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOLS	DF005S	DF01S	DF02S	DF04S	DF06S	DF08S	DF10S	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS bridge input voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified output current at TA=40^{0}C	$I_{F(AV)}$	1.0							Amps
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30							Amps
Rating for Fusing (t＜8.3ms)	I^2t	10							A^2s
Typical thermal resistance per element (1)	$R_{\Theta JA}$	110							℃/W
Typical junction capacitance per element (2)	C_J	25.0							pF
Operating junction and storage temperature range	T_J ,T_{STG}	(-55 to +150)							℃

ELECTRICAL CHARACTERISTICS

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

Parameter	Symbol	DF005S	DF01S	DF02S	DF04S	DF06S	DF08S	DF10S	UNIT
Maximum instantaneous forward voltage drop per leg at 1.0A	VF	1.1							V
Maximum DC reverse current at rated TA =25 C DC blocking voltage per element TA =125℃	IR	10 500							μA

Notes: (1)Thermal resistance from Junction to Ambemt on P.C.board mounting.
(2)Measured at 2.0MHz and applied reverse voltage of 4.0 volts.

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RATING AND CHARACTERISTIC CURVES (TA=25 C Unless otherwise noted)

Fig. 1 Derating Curve for Output Rectified Current

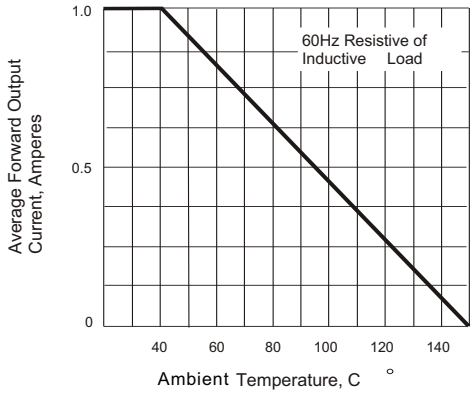


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

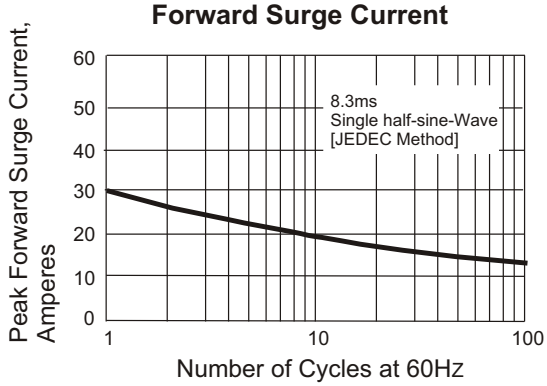


Fig. 3 Typical Instantaneous Forward Characteristics

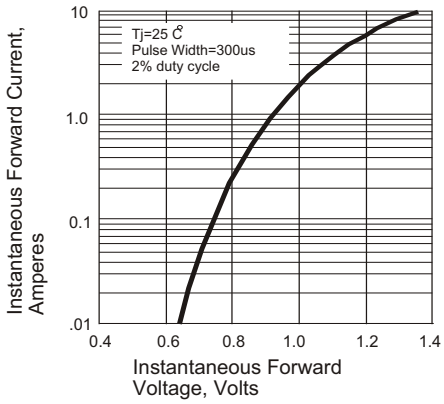


Fig. 4 Typical Revers Characteristics

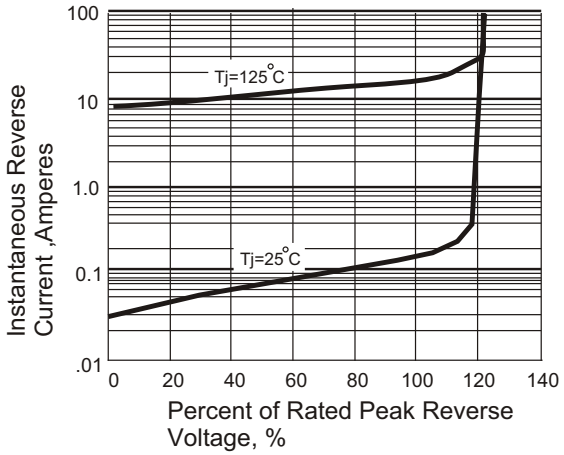
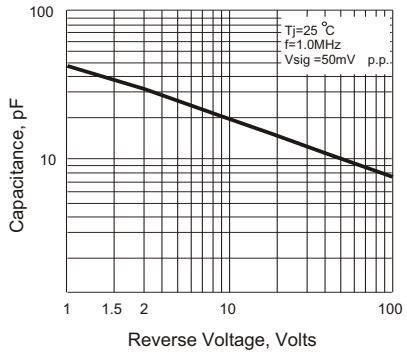


Fig. 5 Typical Junction Capacitance



Disclaimer

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

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