

DF005S THRU DF10S

Single Phase 1.0Amp Glass Passivated Bridge Rectifiers

FEATURES

Plastic material has Underwriters Laboratory
 Flammability Classification 94V-0

· High surge overload rating of 50 Amperes peak

· Ideal for printed circuit board

· Glass passivated chip junction

MECHANICAL DATA

Case: Molded plastic, DB-S

Epoxy: UL 94V-O rate flame retardant

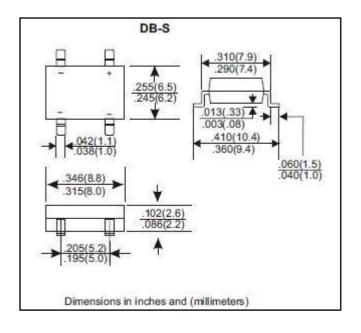
Terminals: Leads solderable per MIL-STD-202,

method 208 guaranteed Mounting position: Any Weight: 0.02ounce, 0.4gram

Maximum Ratings and Electrical Characteristics

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.



	Symbols	DF005S	DF01S	DF02S	DF04S	DF06S	DF08S	DF10S	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS 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
(Note 2)	$I_{(AV)}$				1.0				Amp
Peak Forward Surge Current,									
8.3ms single half-sine-wave	I_{FSM}				30				Amp
superimposed on rated load (JEDEC method)									
Maximum Forward Voltage at 1.0A DC and 25 °C	$V_{\rm F}$				1.1				Volts
Maximum Reverse Current at T _A =25℃					5.0				
at Rated DC Blocking Voltage $T_A=125$ °C	I_R				500				uAmp
Typical Junction Capacitance (Note 1)	C_{J}				25				pF
Typical Thermal Resistance (Note 2)	R_{0JA}				40				°C/W
Typical Thermal Resistance (Note 2)	R_{0JL}				15				°C/W
Operating and Storage Temperature Range	T _J , Tstg				-55 to +150)			°C

NOTES:

- 1- Measured at 1 \mbox{MHz} and applied reverse voltage of 4.0 VDC.
- 2- Units mounted on P.C.B. with 0.5 x 0.5" (13 x 13mm) copper pads

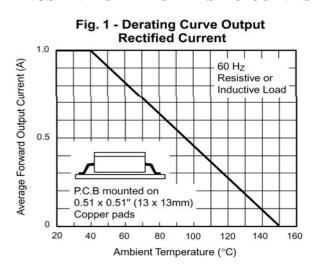




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RATINGS AND CHARACTERISTIC CURVES



F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

100

REPAY To L=90°C

8.3ms Single Half Sine-Wave
(JEDEC Method)

1 10 100

NUMBER OF CYCLES AT 60 Hz

Fig. 3 - Typical Forward Characteristics

Per Leg

10

TJ = 25°C

Pulse width = 300µs

1% Duty Cycle

1% Duty Cycle

Instantaneous Forward Voltage (V)

