

Pb Free Plating Product

## DF005S thru DF10S



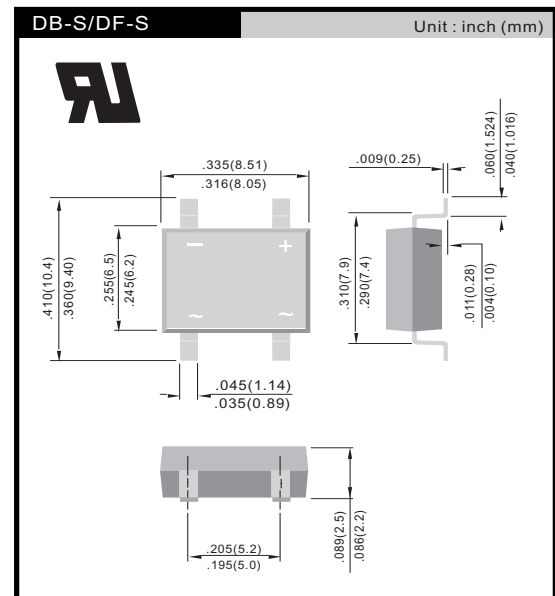
1.0 Ampere Surface Mount Glass Passivated Bridge Rectifier

### Features

- Glass passivated chip junction
- Low forward voltage drop
- High surge overload rating of 50 A peak
- Ideal for printed circuit board

### Mechanical Data

- Case: Molded plastic, DB-S/DF-S
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Leads solderable per MIL-STD-202, method 208 guaranteed
- Mounting position: Any



### Absolute Maximum Ratings and Characteristics

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

Parameter	Symbols	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	Unit
		DF005S	DF01S	DF02S	DF04S	DF06S	DF08S	DF10S	
Maximum Recurrent 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 Rectified Current at $T_A = 40\text{ }^\circ\text{C}$	$I_{(AV)}$	1							A
Peak Forward Surge Current 8.3 ms Single Half-sine-wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	50							A
Maximum Forward Voltage at 1 A	$V_F$	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage	$I_R$	at $T_A = 25\text{ }^\circ\text{C}$							$\mu\text{A}$
		at $T_A = 125\text{ }^\circ\text{C}$							
Typical Junction Capacitance <sup>1)</sup>	$C_J$	25							pF
Typical Thermal Resistance <sup>2)</sup>	$R_{\theta JA}$	40							$^\circ\text{C/W}$
Typical Thermal Resistance <sup>2)</sup>	$R_{\theta JL}$	15							$^\circ\text{C/W}$
Operating and Storage Temperature Range	$T_J, T_S$	-55 to +150							$^\circ\text{C}$

<sup>1)</sup> Measured at 1 MHz and applied reverse voltage of 4 V

<sup>2)</sup> Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B with 0.5 X 0.5" (13 X 13 mm) copper pads.

