

DF005S-G Thru. DF10S-G

Reverse Voltage: 50 to 1000V

Forward Current: 1.0A

RoHS Device

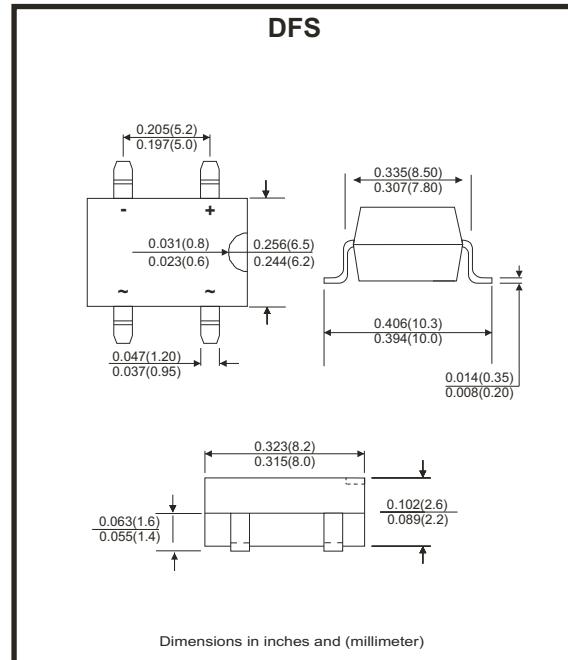


Features

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop,high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead tin Pb/Sn copper
- The plastic material has UL flammability classification 94V-0

Mechanical Data

- Polarit:As marked on Body
- Weight:0.02 ounces, 0.38 grams
- Mounting position:Any



Maximum ratings and electrical characteristics

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

Parameter	Symbol	DF005S-G	DF01S-G	DF02S-G	DF04S-G	DF06S-G	DF08S-G	DF10S-G	Unit
marking	DF005S	DF01S	DF02S	DF04S	DF06S	DF08S	DF10S		
Maximum Reverse Peak Repetitive 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 @T _A =40 °C	I _(AV)					1.0			A
Peak Forward Surge Current , 8.3ms Single Half Sine-Wave Super Imposed On Rated Load	I _{FSM}					50			A
I ² t Rating for Fusing (t<8.3ms)	I ² t				10.4				A ² s
Maximum Forward Voltage at 1.0A DC	V _F				1.1				V
Maximum Reverse Current @T _J =25 °C At Rated DC Blocking Voltage @T _J =125 °C	I _R				10 500				µA
Typical Junction Capacitance (Note 1)	C _J				25				pF
Typical Thermal Resistance (Note 2)	R _{θJA}				40				°C/W
Operating Temperature Range	T _J				-55 ~ +150				°C
Storage Temperature Range	T _{STG}				-55 ~ +150				°C

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V.
2. Unit mounted on P.C.B with 0.51"×0.51" (13×13mm) copper pads.

SMD Glass Passivated Bridge Rectifiers

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Rating and Characteristics Curves (DF005S-G Thru. DF10S-G)

Fig. 1 Forward Current Derating Curve

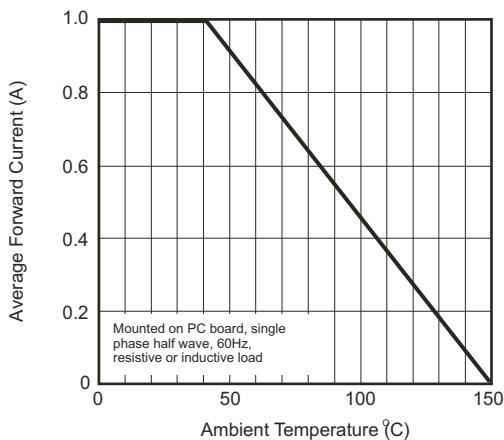


Fig. 2 Maximum Non-repetitive Surge Current

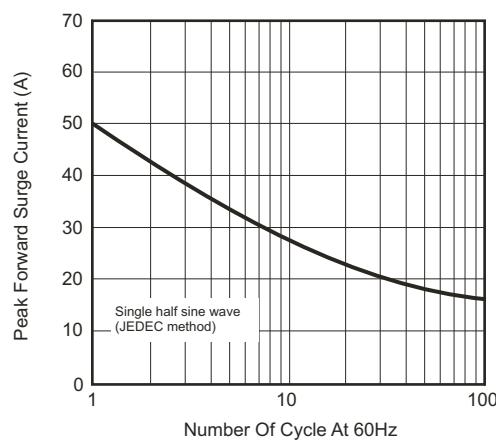


Fig. 3- Typical Junction Capacitance

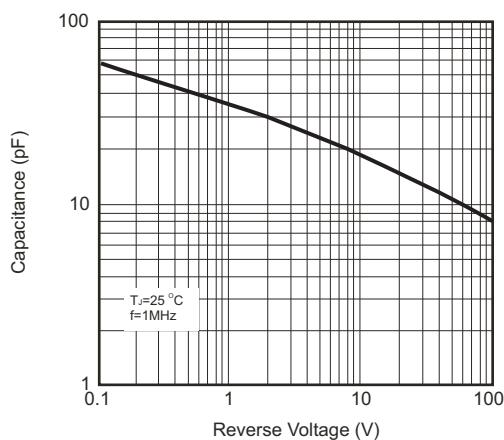


Fig. 4 Typical Forward Characteristics

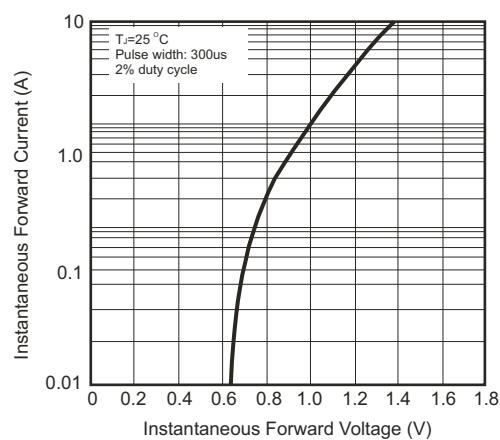


Fig. 5- Typical Reverse Characteristics

