SMD Genenal Purpose Bridge Rectifier

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DF005S Thru DF10S

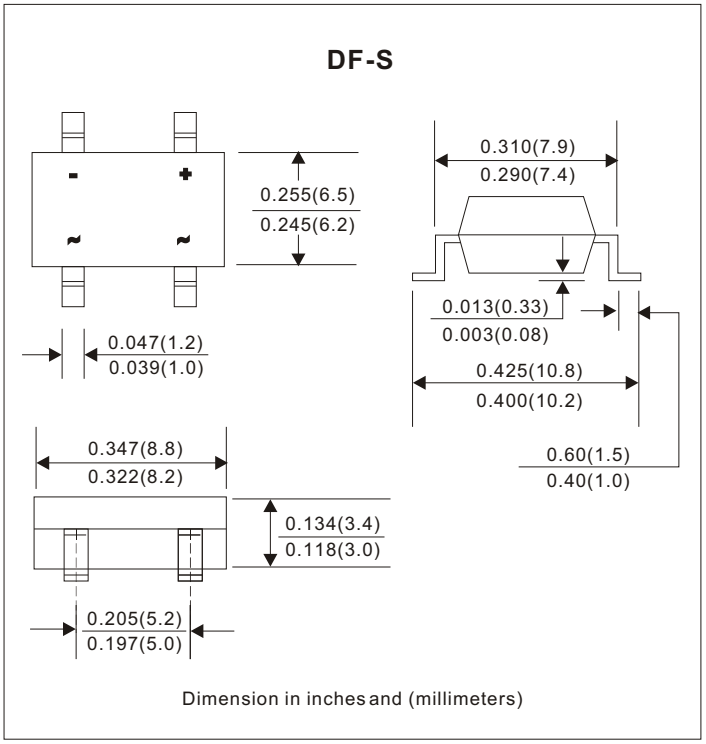
Glass Passivated Type
Reverse Voltage: 50 - 1000 Volts
Forward Current: 1.0 Amp

Features

- Ideal for surface mount applications
- Easy pick and place
- Plastic package has Underwriters Lab. flammability classification 94V-0
- Low forward voltage drop
- Glas passivated junction

Mechanical data

- Case: Molded plastic, DF-S
- Terminals: solderable per MIL-STD-750, method 2026
- Polarity: Marked on body
- Mounting position: Any
- Approx. Weight:1.0 gram



Dimension in inches and (millimeters)

Maximum Ratings and Electrical Characterics

Parameter	Symbol	DF005S	DF01S	DF02S	DF04S	DF06S	DF08S	DF10S	Unit
Max. Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Max. DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Max. RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Peak Surge Forward Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	50							A
Max. Average Forward Current	I_o	1.0							A
Max. Instantaneous Forward Current at 1.0 A	V_F	1.1							V
Max. DC Reverse Current at Rated DC Blocking Voltage Ta=25°C Ta=125°C	I_R	10 500							uA
Max. Thermal Resistance (Note 1)	$R_{\theta JA}$	40							°C/W
Operating Junction Temperature	T_j	-55 to +150							°C
Storage Temperature	T_{STG}	-55 to +150							°C

Note 1: Thermal resistance from junction to ambient.

Rating and Characteristic Curves (DF005S thru DF10S)

Fig. 1 - Reverse Characteristics

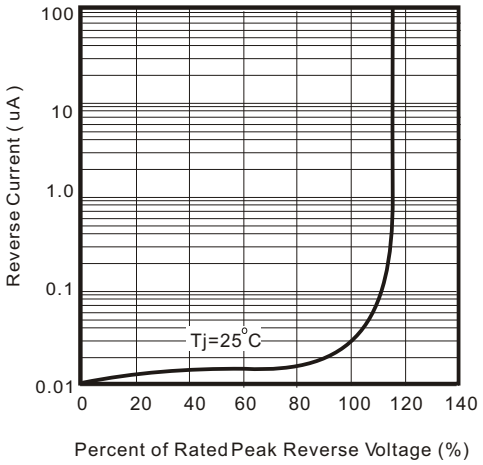


Fig.2 - Forward Characteristics

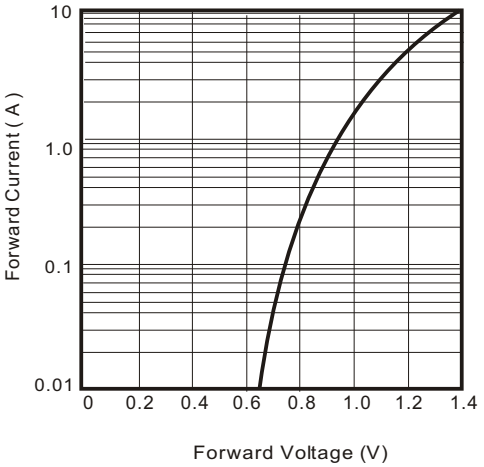


Fig. 3 - Non Repetitive Forward Surge Current

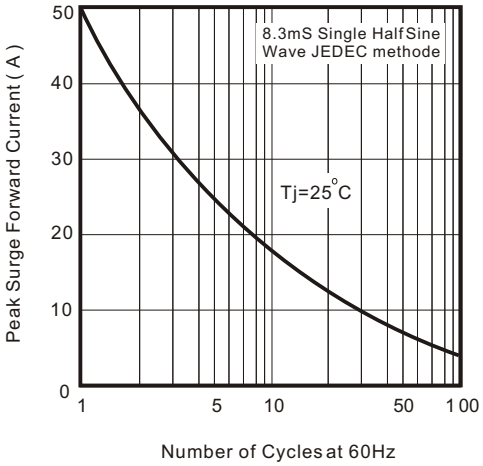


Fig. 4 - Current Derating Curve

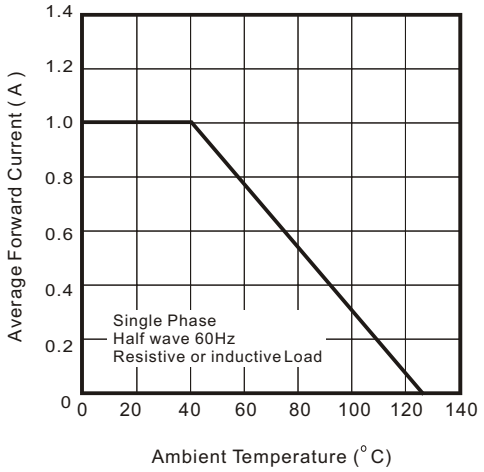


Fig. 5 - Typical Juction Capacitance