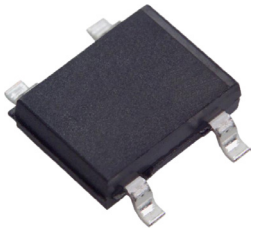
Surface Mount
Glass Passivated Bridge Rectifier



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
- The plastic material has UL flammability classification 94V-0

Mechanical Data:

Polarity : As marked on Body
Weight : 0.02 ounces, 0.38 grams
Mounting Position : Any
Reverse Voltage : 50 to 1000 Volts
Forward Current : 1.0 Ampere

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%.

Characteristics	Symbol	DF005S	DF01S	DF02S	DF04S	DF06S	DF08S	DF10S	Unit
Max. Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Max. RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	
Max. DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	
Max. Average Forward Rectified Current T_A = 40°C	$I_{(AV)}$	1							A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Super Imposed on Rated Load	I_{FSM}	30							
Max. Forward Voltage at 1A DC	V_F	1.1							V
Max. DC Reverse Current at T_J = 25°C Rated DC Blocking Voltage at T_J = 125°C	I_R	10 500							μA
I^2t Rating for Fusing (t<8.3ms)	I^2t	3.735							A^2s
Typical Junction Capacitance per Element (Note1)	C_J	25							pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	40							°C/W
Operating Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}								

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Thermal resistance from junction to ambient mounted on P.C.B with 0.5×0.5"(13×13mm) copper pads.
3. The typical data above is for reference only

Ratings and Characteristic Curves

FIG.1-FORWARD CURRENT DERATING CURVE

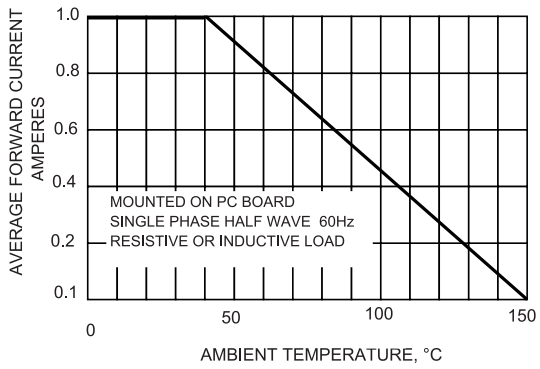


FIG.2-MXIMUM NON-REPETITIVE SURGE CURRENT

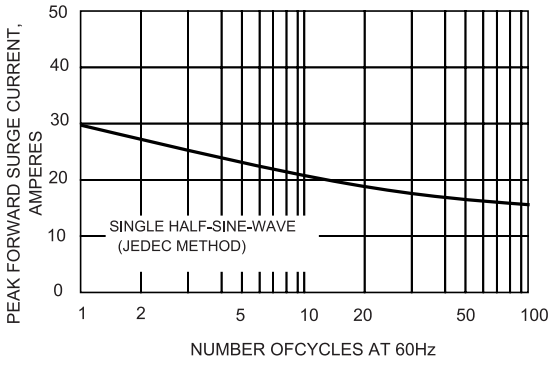


FIG.3-TYPICAL JUNCTION CAPACITANCE

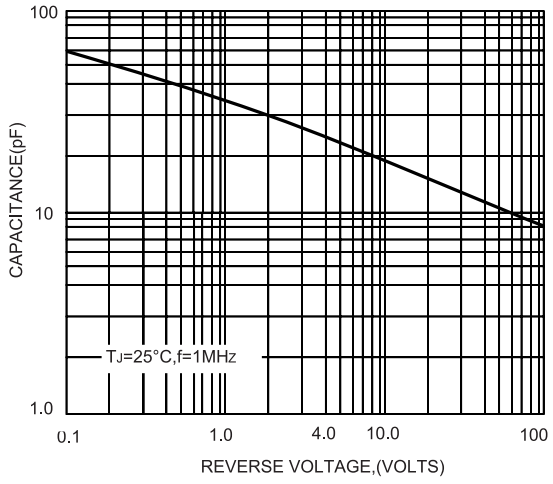


FIG.4-TYPICAL FORWARD CHARACTERISTICS

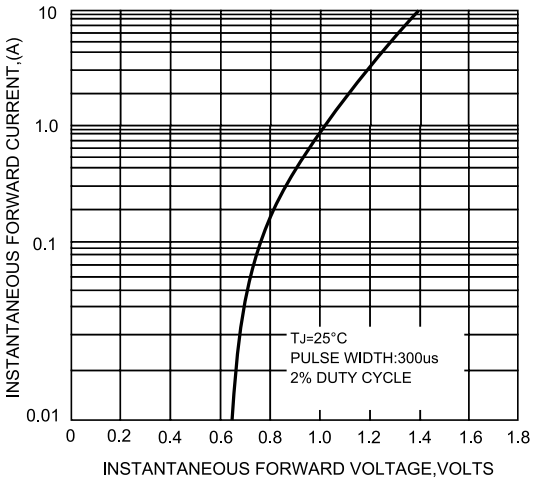
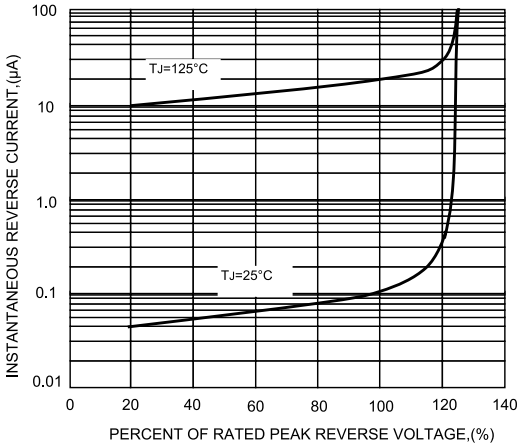


FIG.5-TYPICAL REVERSE CHARACTERISTICS



Surface Mount
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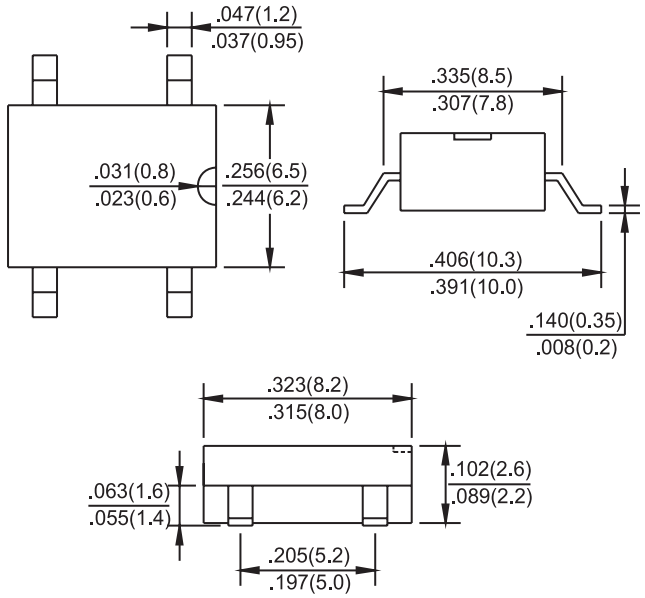
Dimensions:

DFS



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Bridge Rectifier, 1A 50V, Reel	DF005S
Bridge Rectifier, 1A 100V, Reel	DF01S
Bridge Rectifier, 1A 200V, Reel	DF02S
Bridge Rectifier, 1A 400V, Reel	DF04S
Bridge Rectifier, 1A 600V, Reel	DF06S
Bridge Rectifier, 1A 800V, Reel	DF08S
Bridge Rectifier, 1A 1000V, Reel	DF10S