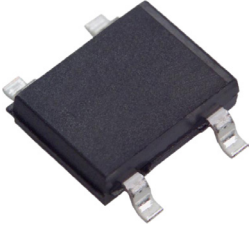


# Surface Mount Glass Passivated Bridge Rectifier

**multicomp** PRO



## 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 $T_A = 40^\circ\text{C}$	$I_{(AV)}$	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 $T_J = 25^\circ\text{C}$ Rated DC Blocking Voltage at $T_J = 125^\circ\text{C}$	$I_R$	10 500							$\mu\text{A}$
$I^2t$ Rating for Fusing ( $t < 8.3\text{ms}$ )	$I^2t$	3.735							$\text{A}^2\text{s}$
Typical Junction Capacitance per Element (Note1)	$C_J$	25							pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	40							$^\circ\text{C}/\text{W}$
Operating Temperature Range	$T_J$	-55 to +150							$^\circ\text{C}$
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

Newark.com/multicomp-pro  
 Farnell.com/multicomp-pro  
 Element14.com/multicomp-pro

**multicomp** PRO

# Surface Mount Glass Passivated Bridge Rectifier

**multicomp** PRO

## Ratings and Characteristic Curves

FIG.1-FORWARD CURRENT DERATING CURVE

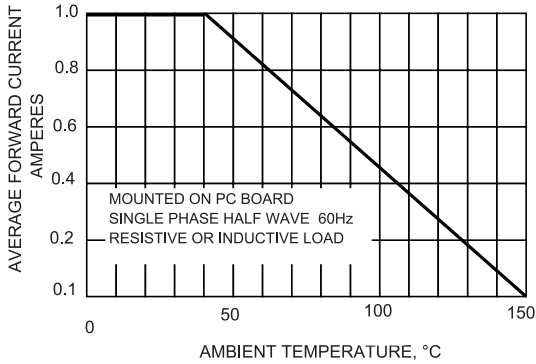


FIG.2-MXIMUM NON-REPETITIVE SURGE CURRENT

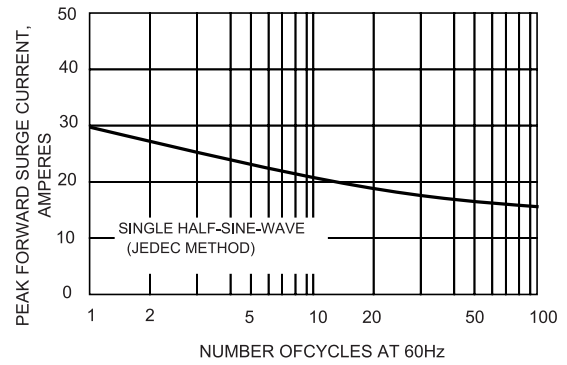


FIG.3-TYPICAL JUNCTION CAPACITANCE

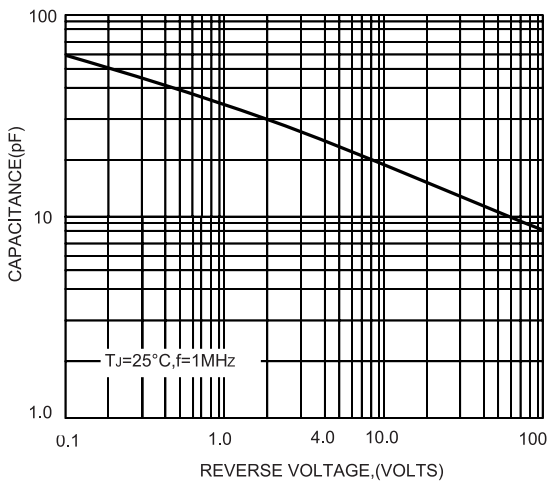


FIG.4-TYPICAL FORWARD CHARACTERISTICS

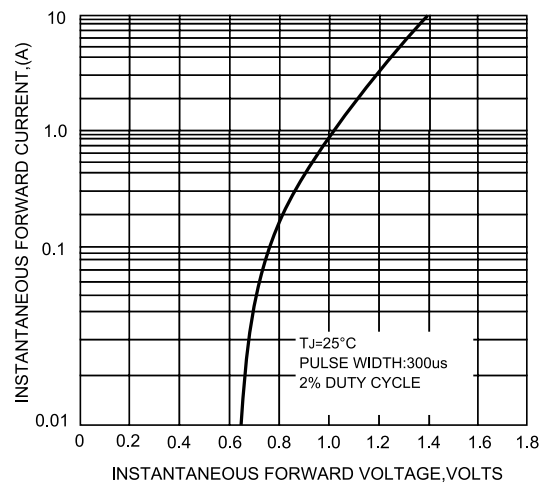
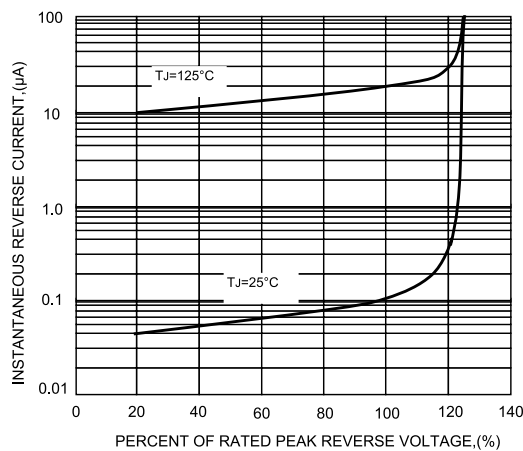


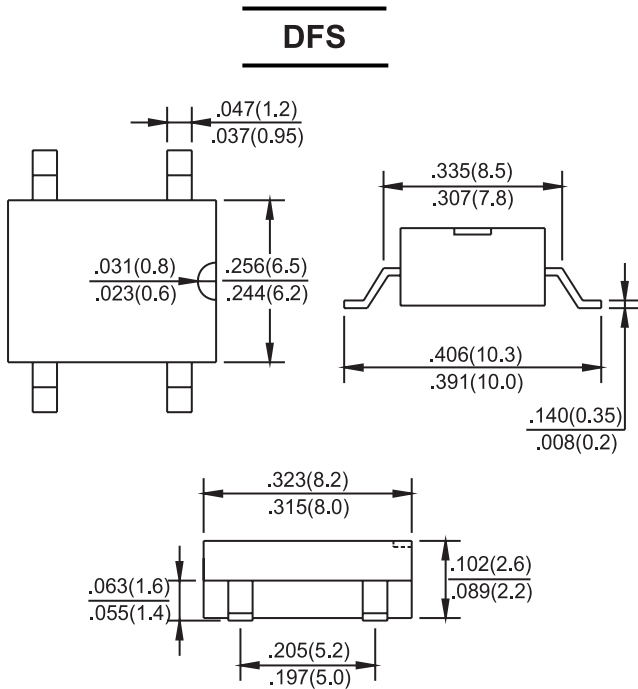
FIG.5-TYPICAL REVERSE CHARACTERISTICS



# Surface Mount Glass Passivated Bridge Rectifier



## Dimensions:



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

**Important Notice :** This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro  
Farnell.com/multicomp-pro  
Element14.com/multicomp-pro

