

# Glass Passivated Bridge Rectifier



## Features:

- Rating to 1,000V PRVP
- Ideal for Printed Circuit Board
- Low Forward Voltage Drop, High Current Capability
- Reliable Low Cost Construction Utilizing Moulded Plastic Technique Results in Inexpensive Product

## Maximum Ratings and Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate by 20%.

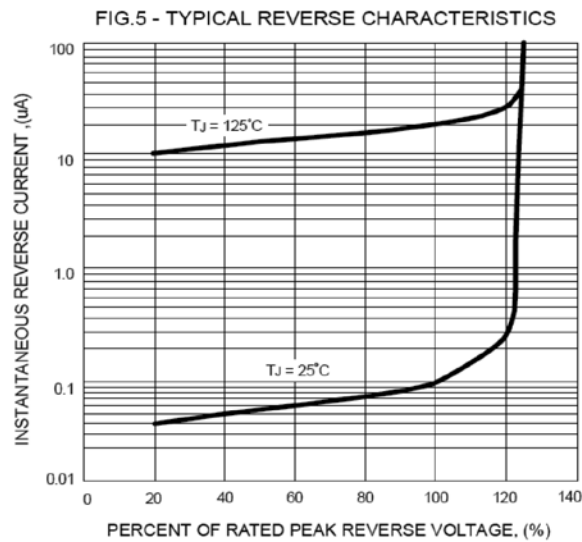
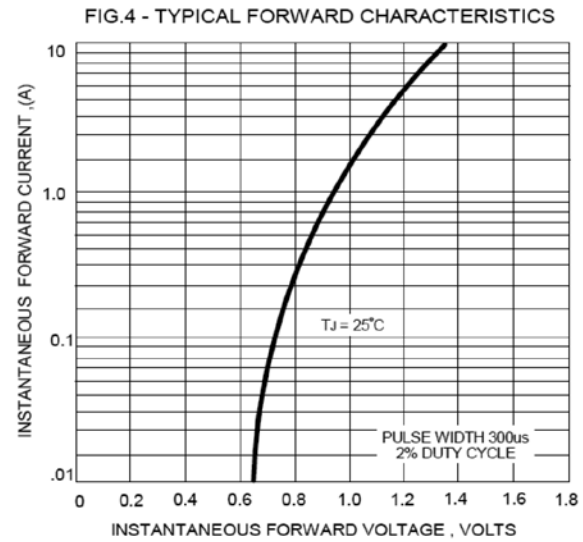
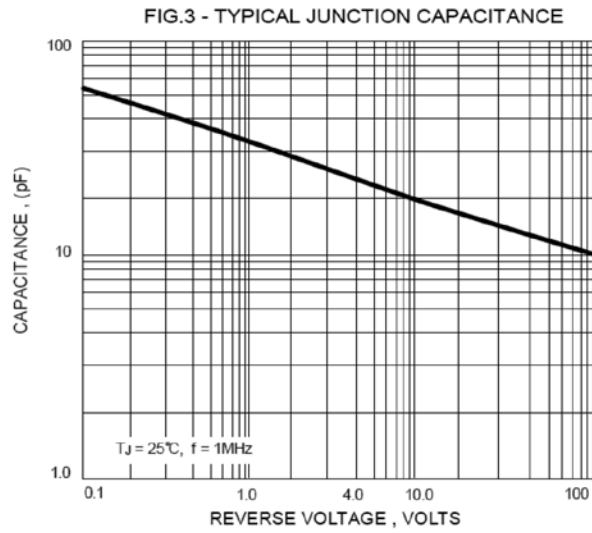
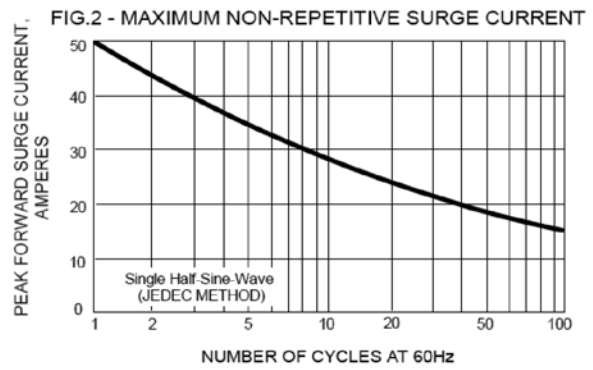
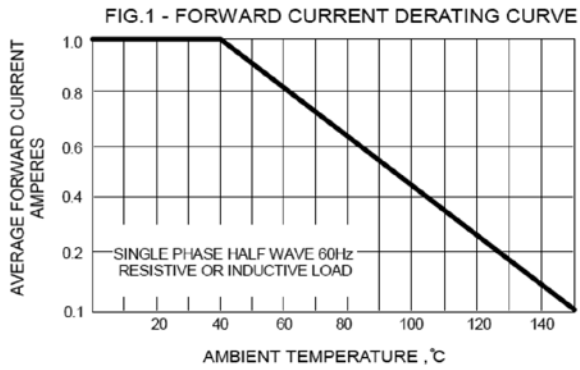
Characteristic	Symbol	DF06S-T	Units
Maximum repetitive peak reverse voltage	$V_{RRM}$	600	V
Maximum RMS voltage	$V_{RWS}$	420	V
Maximum DC blocking voltage	$V_{DC}$	600	V
Maximum average forward Output current at $T_A = 40^\circ\text{C}$	$I_{F(AV)}$	1	A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load (JEDEC METHOD)	$I_{FSM}$	50	A
Maximum instantaneous forward voltage at 1A DC	$V_F$	1.1	V
Maximum DC reverse current $T_J=25^\circ\text{C}$ at rated DC blocking voltage $T_J=125^\circ\text{C}$	$I_R$	10 500	$\mu\text{A}$
$I_t$ Rating for fusing ( $t < 8.3\text{ms}$ )	$I_t^2$	10.4	$\text{A}^2\text{S}$
Typical junction capacitance per element (Note1)	$C_J$	25	pF
Typical thermal resistance (Note 2)	$R_{\theta JA}$	40	$^\circ\text{C/W}$
Operating junction and storage temperature range	$T_J, T_{STG}$	-55 to +150	$^\circ\text{C}$

### Note:

(1) Measured at 1MHz and applied reverse voltage of 4V DC

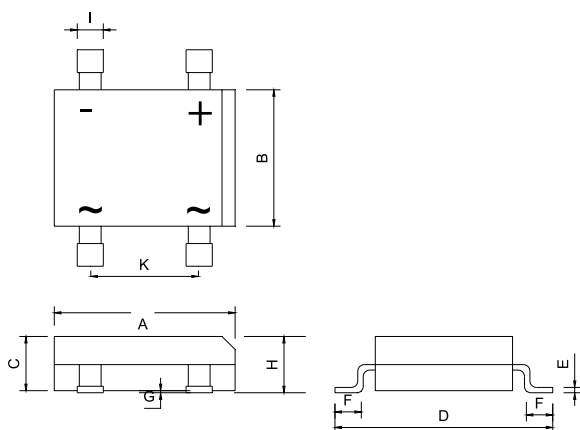
(2) Thermal resistance from junction to ambient mounted on PCB with 0.5" x 0.5" (13 x 13mm) copper pads

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## Package Outline Dimensions



DFS		
Dim.	Min.	Max.
A	8.2	8.6
B	6.1	6.5
C	2.35	2.65
D	9.6	10.1
E	0.25 Typ.	
F	0.9	1.5
G	0.2 Max.	
H	2.5	2.8
I	1	1.4
K	4.8	5.2

Dimensions : Millimetres

## Package Information

Device	Package	Shipping
DF06S-T	DFS	50unit/pipe

## Part Number Table

Description	Part Number
Glass Passivated Bridge Rectifier	DF06S-T

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