

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%.

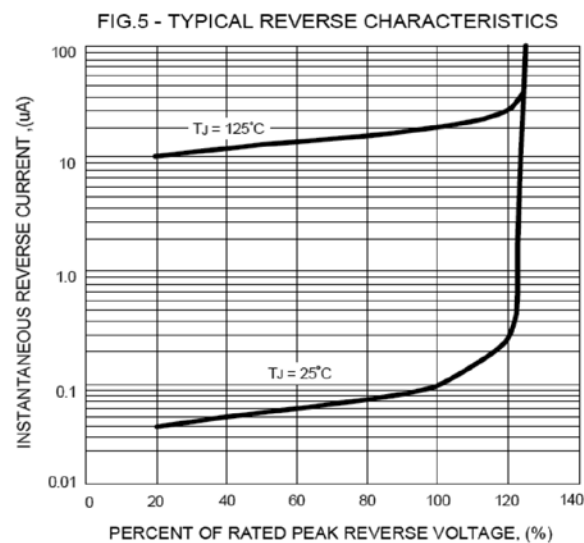
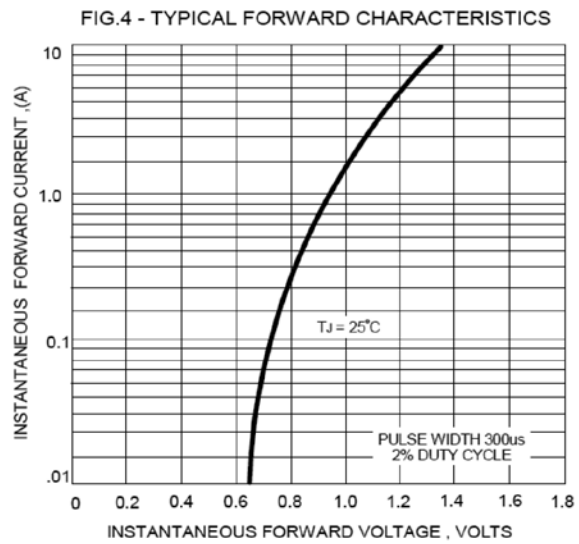
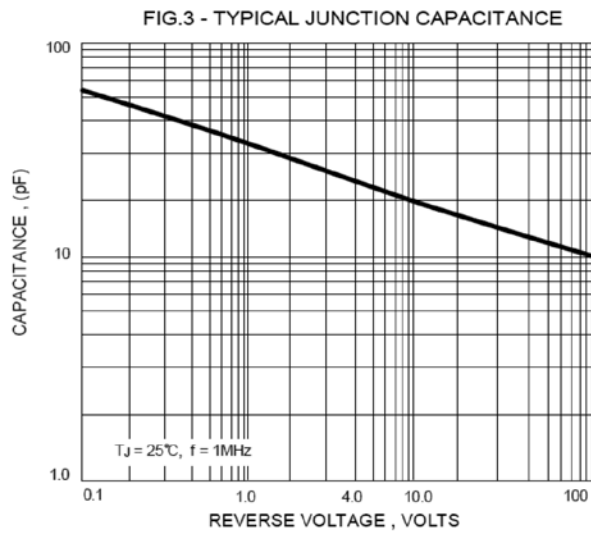
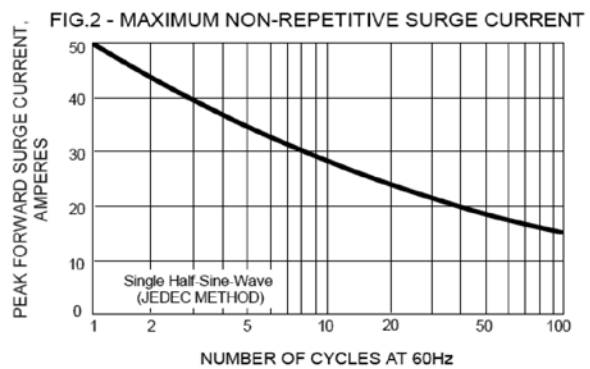
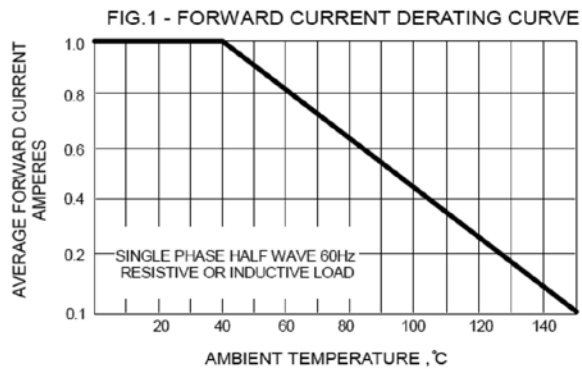
Characteristic	Symbol	DF06S-T	Units
Maximum repetitive peak reverse voltage	V_{RRM}	600	V
Maximum RMS voltage	V_{RWS}	420	V
Maximum DC blocking voltage	V_{DC}	600	V
Maximum average forward Output current at $T_A = 40^\circ\text{C}$	$I_{F(AV)}$	1	A
Peak forward surge current 8.3ms single half-sine-wave 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	μA
I_t Rating for fusing ($t < 8.3\text{ms}$)	I^2t	10.4	A^2S
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

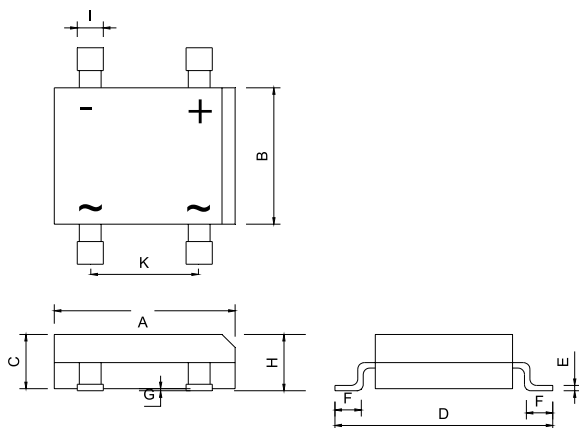
(2) Thermal resistance from junction to ambient mounted on PCB with 0.5" × 0.5" (13 × 13mm) copper pads

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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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