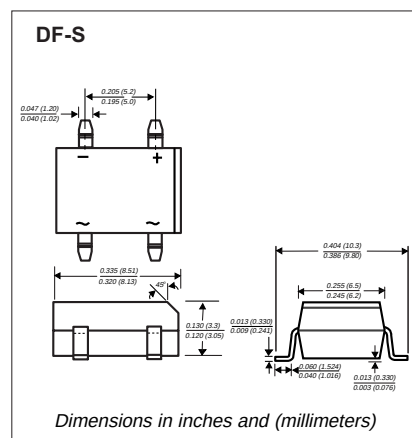


Surface Mount Glass Passivated Bridge Rectifiers

DF005S - DF10S

Features

Glass passivated chip junctions
 Low Forward Voltage Drop, High Current Capability
 Surge Overload Rating to 50A Peak



Absolute Maximum Ratings $T_A = 25^\circ\text{C}$

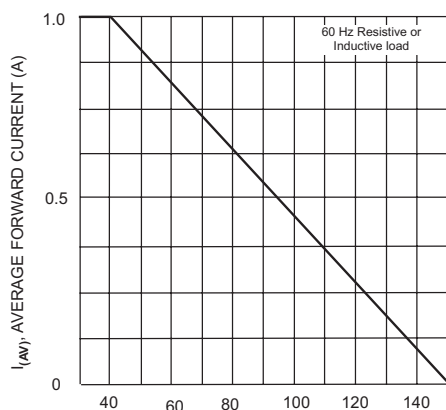
Parameter	Symbol	DF005S	DF01S	DF02S	DF04S	DF06S	DF08S	DF10S	Unit
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_{DC}								
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average Forward Rectified Current $T_A = 40^\circ\text{C}$	I_O	1.0							A
Non-Repetitive Peak Forward Surge Current, 8.3 ms Single half-sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	50							A
Forward Voltage (per element) @ $I_F = 1.0\text{A}$	V_F	1.1							V
Reverse Current(per element) @ Rated V_R , $T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$	I_R	10 500							μA
Rating for fusing ($t < 8.3\text{ms}$)	I^2t	10							A^2s
Typical Total Capacitance (per element) (Note 1)	C_J	25							pF
Typical Thermal Resistance, Junction to Ambient (Note 2)	$R_{\theta JA}$	40							$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{stg}	-55 to +150							$^\circ\text{C}$

Notes: 1. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V DC.

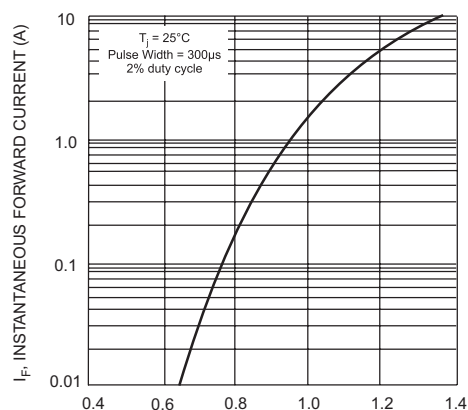
2. Device mounted on PCB with 0.5×0.5 " ($13 \times 13\text{mm}$).

DF005S - DF10S

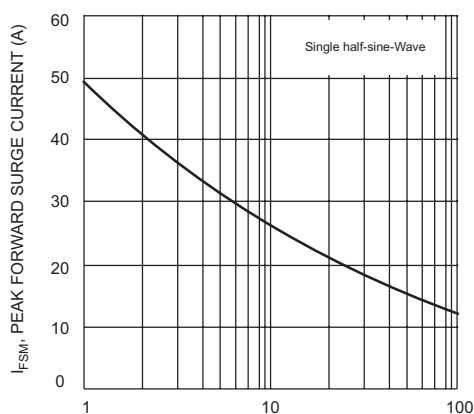
■ Typical Characteristics



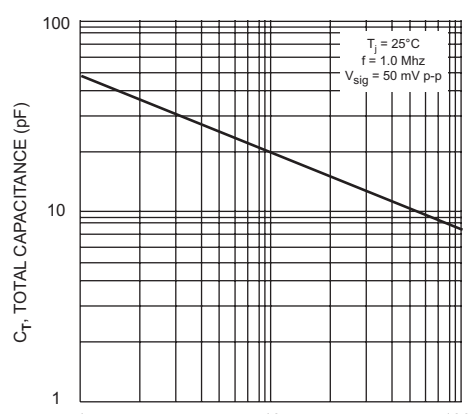
T_A , AMBIENT TEMPERATURE (°C)
Fig. 1 Output Current Derating Curve



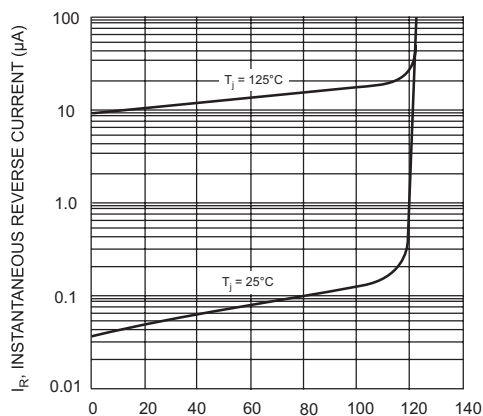
V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Typ Forward Characteristics (per element)



NUMBER OF CYCLES AT 60 Hz
Fig. 3 Max Non-Repetitive Peak Forward Surge Current



V_R , REVERSE VOLTAGE (V)
Fig. 4 Typical Total Capacitance (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)
Fig. 5 Typ Reverse Characteristics (per element)