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Jameco Part Number 1218917



DF005S - DF10S Bridge Rectifiers

Features

- Surge overload rating: 50 amperes peak.
- · Glass passivated junction.
- · Low leakage.
- UL certified, UL #E111753.



Absolute Maximum Ratings * Ta = 25°C unless otherwise noted

Symbol	Parameter	Value						Unito	
		005S	01S	02S	04S	06S	08S	10S	Units
V_{RRM}	Maximum Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
V _{RMS}	Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
V _R	DC Reverse Voltage (Rated V _R)	50	100	200	400	600	800	1000	V
I _{F(AV)}	Average Recitified Forward Current @ T _A = 40°C				1.5				Α
I _{FSM}	Non-Repetitive Peak Forward Surge Current 8.3ms Single Half-Sine-Wave 50			А					
T _{STG}	Storage Temperature Range	-55 to +150		°C					
T _J	Operating Junction Temperature	-55 to +150		°C					

^{*} These ratings are limiting values above which the serviceability of any semiconductor device may by impaired.

Thermal Characteristics

Symbol	Parameter	Value	Units	
P_D	Power Dissipation	3.1	W	
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient, * per leg	40	°C/W	

^{*} Device mounted on PCB with 0.5 \times 0.5" (13 \times 13mm).

Electrical Characteristics T_C = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _F	Forward Voltage, per element @ 1.0A	1.1	V
I _R	Reverse Current, per element @ Rated V_R $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	50 500	μΑ μΑ
	I ² t Rating for Fusing t < 8.35ms	10	A ² s
C _T	Total Capacitance, per leg V _R = 4.0v, f = 1.0MHz	25	pF

Typical Performance Characteristics

Figure 1. Non-Repetitive Surge Current

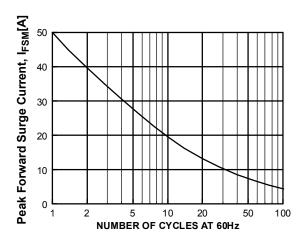


Figure 2. Forward Current Derating Curve

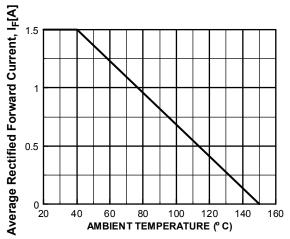


Figure 3. Forward Voltage Characteristics

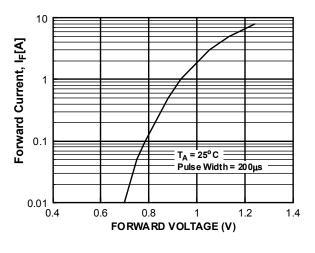
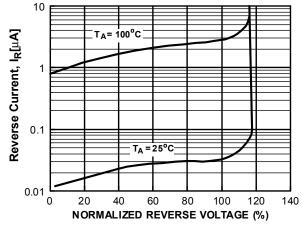


Figure 4. Reverse Current vs Reverse Voltage



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Programmable Active Droop™		FACIVIAIN	SWART START	VCX™

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