August 2010

Absolute Maximum Ratings * $T_A = 25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value						Linita	
		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				А			
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					
TJ	Operating Junction Temperature	-55 to +150		°C					

SDIP

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

Thermal Characteristics

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Features

· Low leakage.

DF005S - DF10S

Bridge Rectifiers

• Surge overload rating: 50 amperes peak.

• UL certified, UL #E111753 and E326243.

• Glass passivated junction.

Symbol	Parameter	Value	
PD	Power Dissipation	3.1	W
R_{\thetaJA}	Thermal Resistance, Junction to Ambient, * per leg	40	°C/W
* Device mounted on PCB with 0.5×0.5 " (13 \times 13mm)			

Device mounted on PCB with 0.5×0.5 " (13×13 mm).

Electrical Characteristics $T_A = 25^{\circ}C$ unless otherwise noted

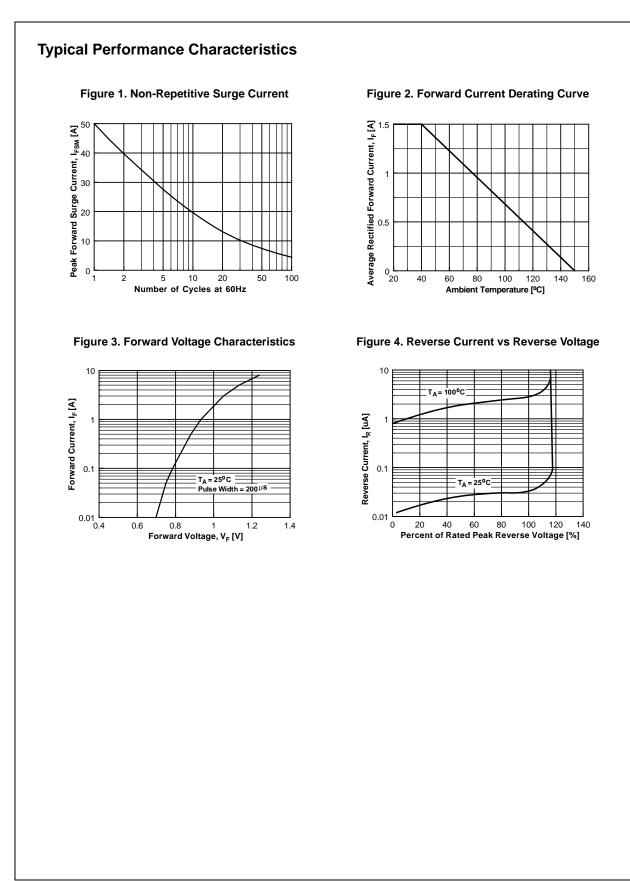
Symbol	Parameter	Value	Units	
V _F	Forward Voltage, per element @ 1.0A	1.1	V	
I _R	Reverse Current, per element @ rated V _R $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	5.0 500	μΑ μΑ	
	$I^{2}t$ Rating for Fusing t < 8.35ms	10	A ² s	
CT	Total Capacitance, per leg $V_R = 4.0V$, f = 1.0MHz	25	pF	

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DF005S - DF10S — Bridge Rectifiers



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Datasheet Identification	Product Status	Definition		
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