



Discrete POWER & Signal Technologies

DF005S - DF10S

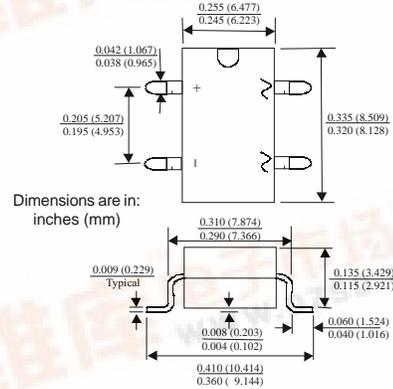
Features

- Surge overload rating: 50 amperes peak.
- Glass passivated junction.
- Low leakage.



SDIP

LOW PROFILE ALSO AVAILABLE
 BODY -- 0.102 (2.591)*
 0.095 (2.413)*



1.5 Ampere Bridge Rectifiers

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

Symbol	Parameter	Value	Units
I _O	Average Rectified Current @ T _A = 40°C	1.5	A
i _{f(surge)}	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	50	A
P _D	Total Device Dissipation Derate above 25°C	3.1 25	W mW/°C
R _{θJA}	Thermal Resistance, Junction to Ambient,** per leg	40	°C/W
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 be impaired.

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

Electrical Characteristics T_A = 25°C unless otherwise noted

Parameter	Device							Units	
	005S	01S	02S	04S	06S	08S	10S		
Peak Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V	
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V	
DC Reverse Voltage (Rated V _R)	50	100	200	400	600	800	1000	V	
Maximum Reverse Leakage, total bridge @ rated V _R T _A = 25°C T _A = 125°C								5.0 500	μA μA
Maximum Forward Voltage Drop, per bridge @ 1.0 A								1.1	V
I ² t rating for fusing t < 8.35 ms								10	A ² Sec
Typical Junction Capacitance, per leg V _R = 4.0 V, f = 1.0 MHz								25	pF



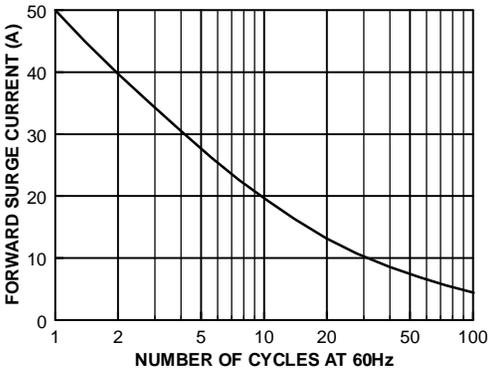
Bridge Rectifiers

(continued)

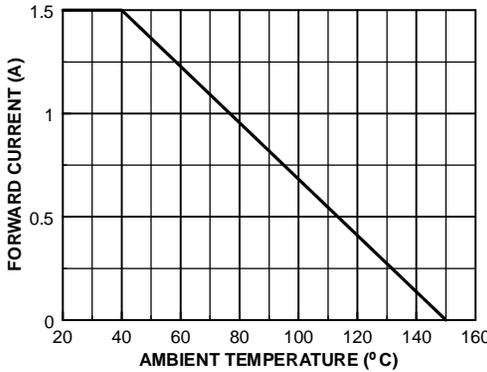
DF005S - DF10S

Typical Characteristics

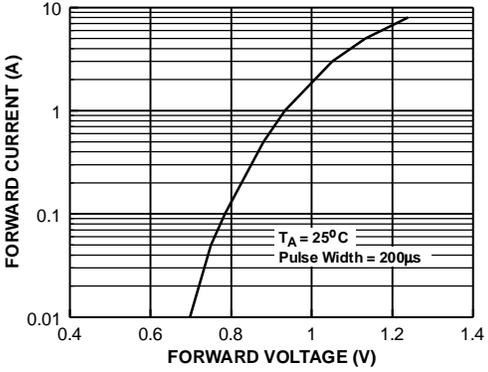
Non-Repetitive Surge Current



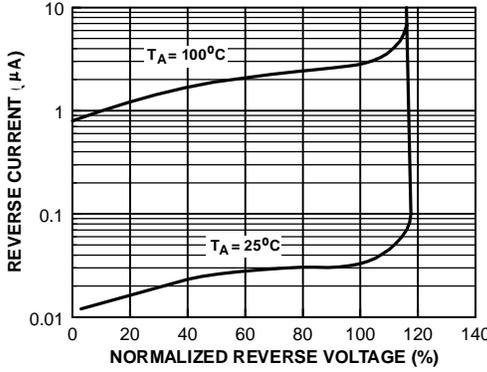
Output Rectified Current



Forward Characteristics



Reverse Characteristics



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FACT™	QS™
FACT Quiet Series™	Quiet Series™
FAST®	SuperSOT™-3
FASTr™	SuperSOT™-6
GTO™	SuperSOT™-8
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