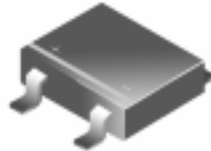


DF005S - DF10S

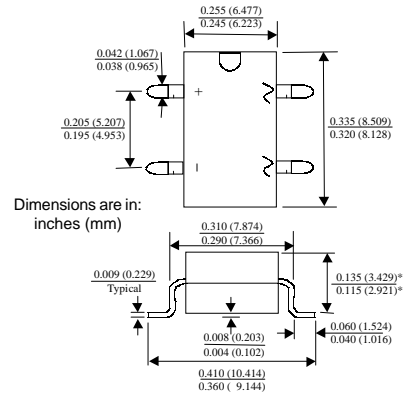
Features

- 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).

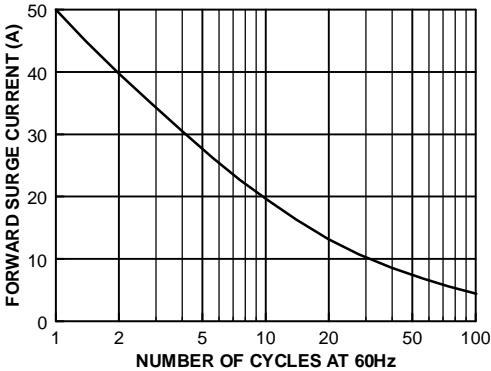
Electrical Characteristics

T_A = 25°C unless otherwise noted

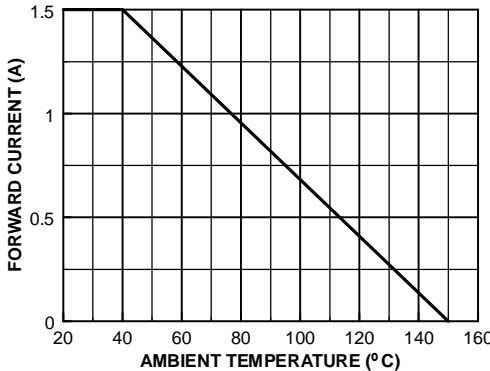
Parameter	Device							Units
	005S	01S	02S	04S	06S	08S	10S	
Peak Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
DC Reverse Voltage (Rated V _R)	50	100	200	400	600	800	1000	V
Maximum Reverse Leakage, total bridge @ rated V _R T _A = 25°C	5.0							μA
T _A = 125°C	500							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

Typical Characteristics

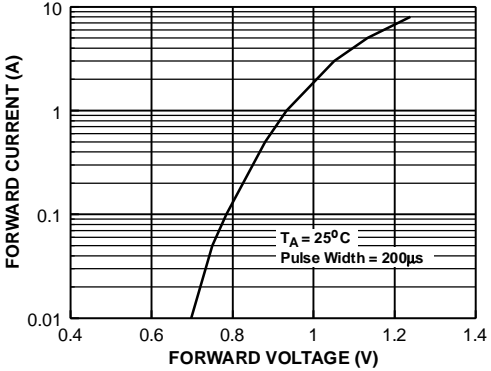
Non-Repetitive Surge Current



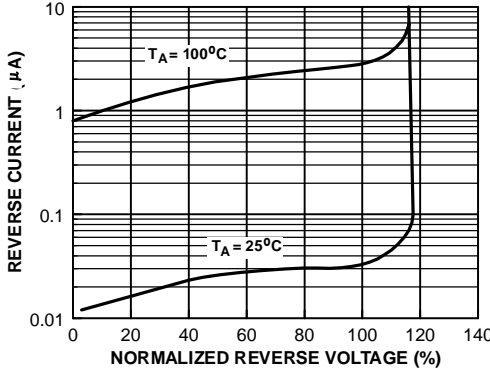
Output Rectified Current



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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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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