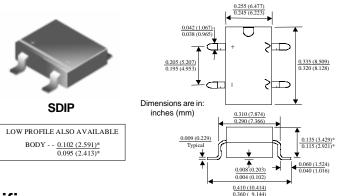


Discrete POWER & Signal Technologies

DF005S - DF10S

Features

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



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	А
İf(surge)	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	50	А
P _D	Total Device Dissipation Derate above 25°C	3.1 25	W mW/°C
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient,** per leg	40	°C/W
T _{stg}	Storage Temperature Range	-55 to +150	°C
TJ	Operating Junction Temperature	-55 to +150	°C

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

Electrical Characteristics T_A = 25°C unless otherwise noted

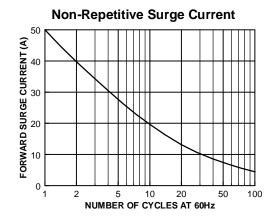
Parameter	Device						Units	
	005S	01S	02S	04S	06S	08S	10S	
Peak Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	35	70	140	280	420	560	700	V
DC Reverse Voltage (Rated V _R)	50	100	200	400	600	800	1000	V
Maximum Reverse Leakage, total bridge @ rated V_R $T_A =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

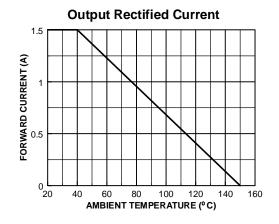
^{**}Device mounted on PCB with 0.5 x 0.5" (13 x 13 mm).

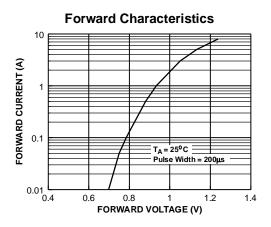
Bridge Rectifiers

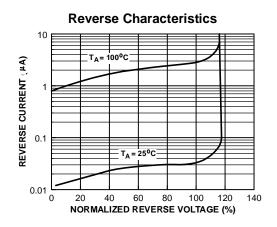
(continued)

Typical Characteristics









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 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.

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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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