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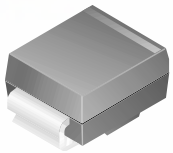
FAIRCHILD SEMICONDUCTOR®

S2A - S2M

Features

- Easy pick and place.
- Low forward Voltage Drop.
- High Current Capability.
- High Surge Current Capability.



SMB/DO-214AA
COLOR BAND DENOTES CATHODE

General Purpose Rectifiers (Glass Passivated)

Absolute Maximum Ratings*

T_A = 25°C unless otherwise noted

Symbol	Parameter	Value							Units
		2A	2B	2D	2G	2J	2K	2M	
V_{RRM}	Maximum Repetitive Reverse Voltage	50	100	200	400	600	800	1000	V
$I_{F(AV)}$	Average Rectified Forward Current, @ T_A = 100°C	2.0							A
I_{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	50							A
T_{stg}	Storage Temperature Range	-65 to +150							°C
T_J	Operating Junction Temperature	-65 to +150							°C

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

Thermal Characteristics

Symbol	Parameter	Value	Units
P_D	Power Dissipation	2.35	W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient*	53	°C/W

*Device mounted on FR-4 PCB 0.013 mm.

Electrical Characteristics

T_A = 25°C unless otherwise noted

Symbol	Parameter	Device							Units
		2A	2B	2D	2G	2J	2K	2M	
V_F	Forward Voltage @ 2.0 A	1.15							V
t_{rr}	Reverse Recovery Time I_F = 0.5 A, I_R = 1.0 A, I_{rr} = 0.25 A	2.0							µs
I_R	Reverse Current @ rated V_R T_A = 25°C T_A = 125°C	1.0 125							µA µA
C_T	Total Capacitance V_R = 4.0 V, f = 1.0 MHz	30							pF

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General Purpose Rectifiers (Glass Passivated)
(continued)

Typical Characteristics

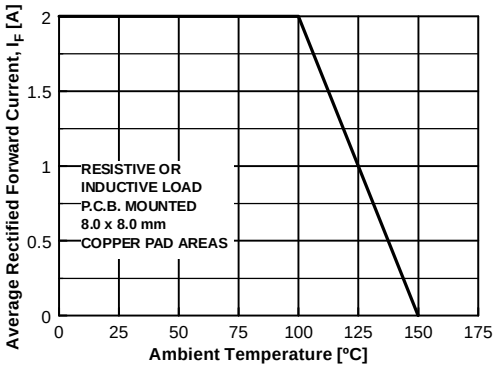

Figure 1. Forward Current Derating Curve

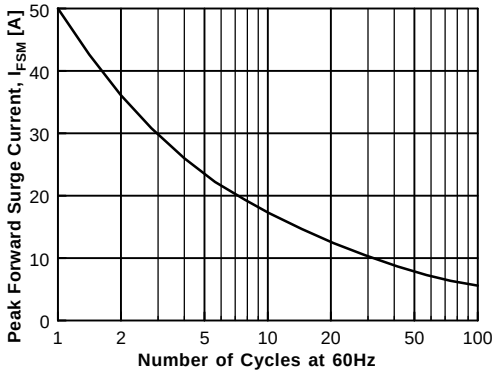

Figure 2. Non-Repetitive Surge Current

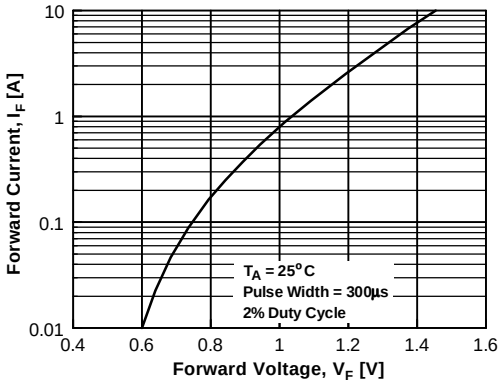

Figure 3. Forward Voltage Characteristics

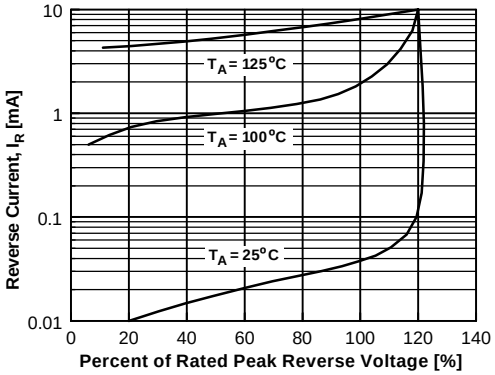

Figure 4. Reverse Current vs Reverse Voltage

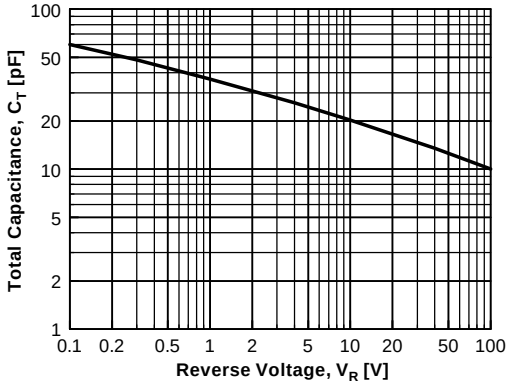

Figure 5. Total Capacitance

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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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