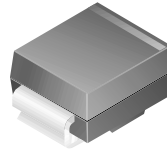


S2A - S2M

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 _{θJA}	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	1.0							μA
		125							μA
C _T	Total Capacitance V _R = 4.0 V, f = 1.0 MHz	30							pF

Typical Characteristics

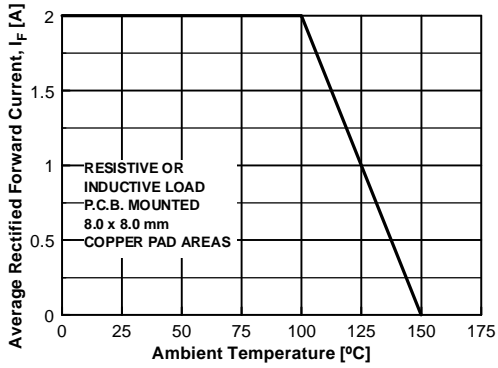


Figure 1. Forward Current Derating Curve

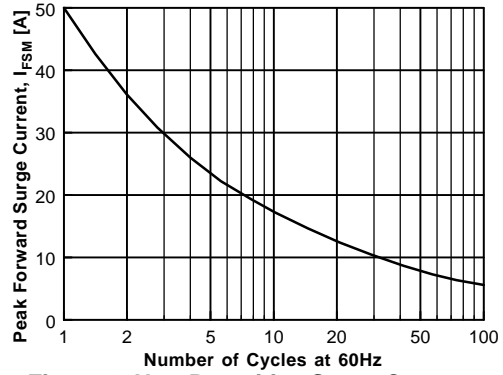


Figure 2. Non-Repetitive Surge Current

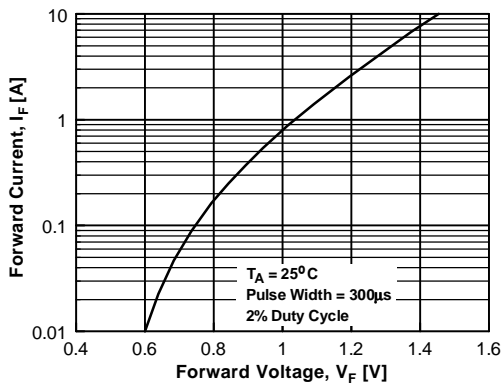


Figure 3. Forward Voltage Characteristics

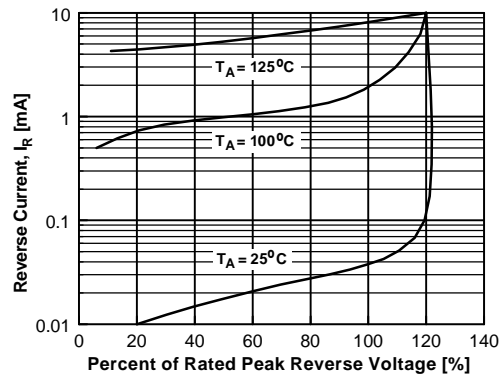


Figure 4. Reverse Current vs Reverse Voltage

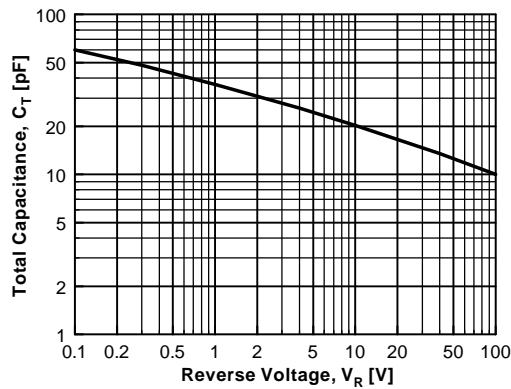


Figure 5. Total Capacitance

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