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Power Surface Mount Schottky Rectifier
(15V，60Amp)

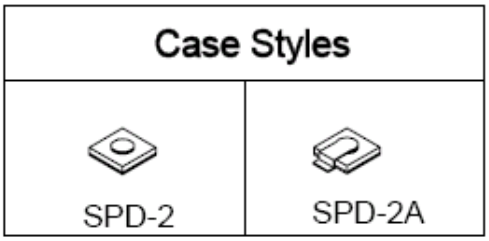
Applications:

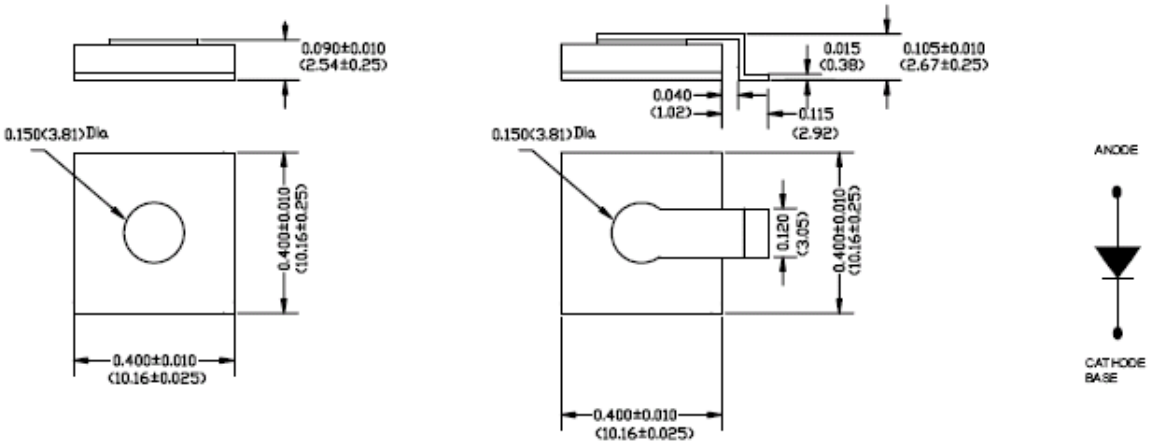
● Switching power supply ● Redundant power subsystems ● Reverse battery protection
● Converters ● Many other high current AC/DC power supplies

Features:

- 100 °C T_J operation
- Low forward voltage drop
- High surge capacities
- High frequency operation
- Guaranteed reverse avalanche capability
- Low profile surface mount package
- This is a Pb − Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Dimensions: In Inches / mm





SPD-2 **SPD-2A**

Suffix “R” Denotes Reversed Polarity

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Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	15	V
Max. Average Forward	$I_{F(AV)}$	50% duty cycle, rectangular wave form	60	A
Max. Peak One Cycle Non-Repetitive Surge Current (per leg)	I_{FSM}	8.3 ms, half Sine pulse	860	A

Electrical Characteristics:

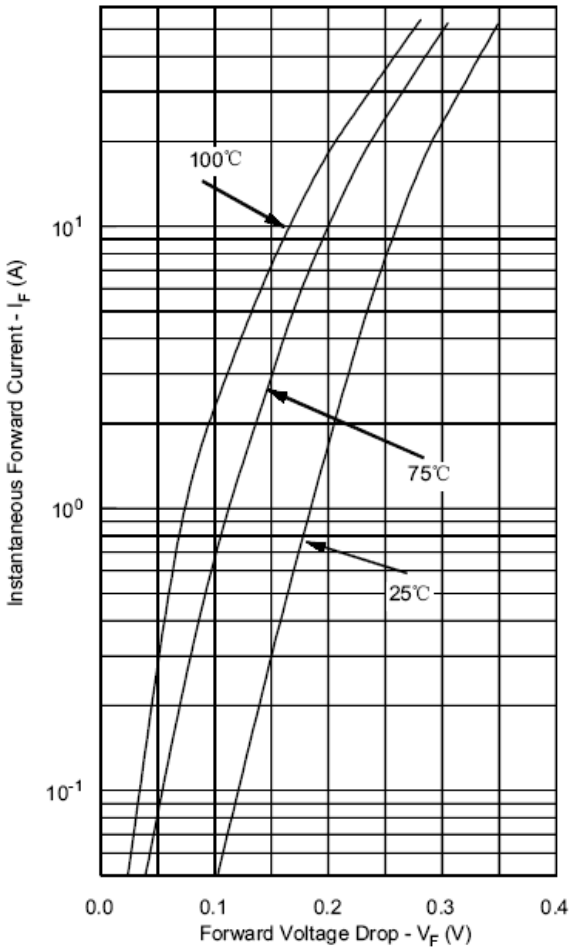
Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop*	V_{F1}	@ 60A, Pulse, T_J = 25 °C	0.41	V
	V_{F2}	@ 60A, Pulse, T_J = 75 °C	0.37	V
Max. Reverse Current (per leg) *	I_{R1}	@V_R = rated V_R, Pulse, T_J = 25 °C	20	mA
	I_{R2}	@V_R = rated V_R, Pulse, T_J = 100 °C	1000	mA
Max. Junction Capacitance (per leg)	C_J	@V_R = 5V, T_C = 25 °C f_{SIG} = 1MHz	3600	pF

* Pulse Width < 300μs, Duty Cycle <2%

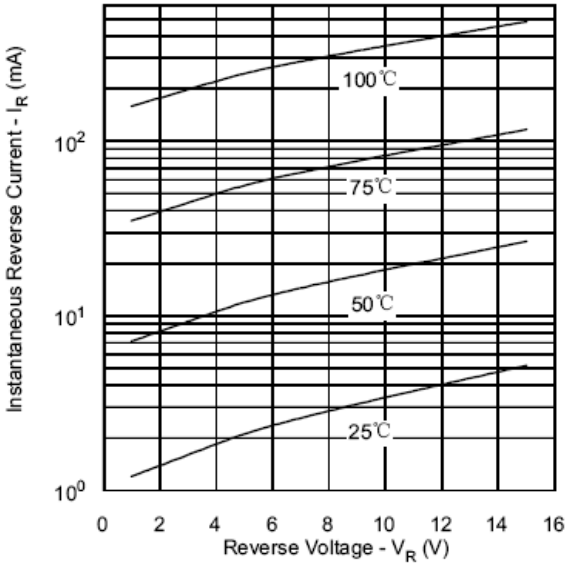
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-55 to +125	°C
Max. Storage Temperature	T_{stg}	-	-55 to +100	°C
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	DC operation	0.37	°C/W
Case Style	SPD-2/A			

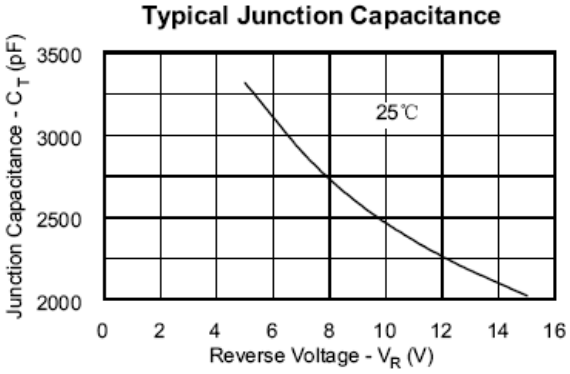
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



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