

36SPA200/A

Technical Data Data Sheet N1142, Rev. - **Green Products**

Power Surface Mount Schottky Rectifier (200V, 30Amp)

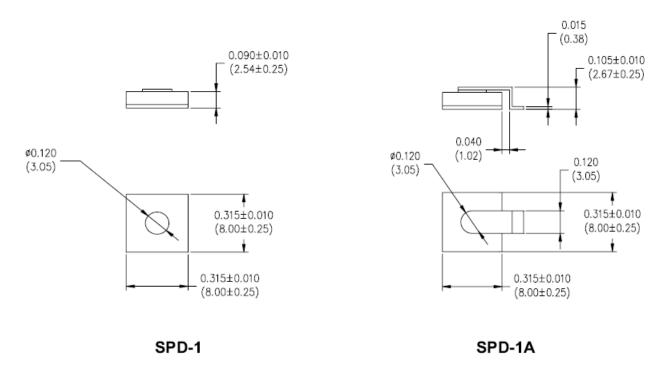
Applications:

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

Features:

- 175℃ T_J operation
- Low reverse leakage current
- High surge capacities
- Low forward voltage drop
- High frequency operation
- 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



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Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	200	V
Max. Average Forward Current	I _{F(AV)}	50% duty cycle, rectangular wave form	30	А
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	570	А

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop*	V _{F1}	@ 30A, Pulse, T _J = 25 °C	0.92	V
	V _{F2}	@ 30A, Pulse, T _J = 125 °C	0.76	V
Max. Reverse Current*	I _{R1}	@V _R = 200V, Pulse, T _J = 25 °C	0.7	mA
	I _{R2}	@V _R = 200V, Pulse, T _J = 125 °C	16	mA
Max. Junction Capacitance	Ст	$@V_{R} = 5V, T_{C} = 25 \ ^{\circ}C$ $f_{SIG} = 1MHz,$ $V_{SIG} = 50mV(p-p)$	600	pF

* Pulse Width < 300µs, Duty Cycle <2%

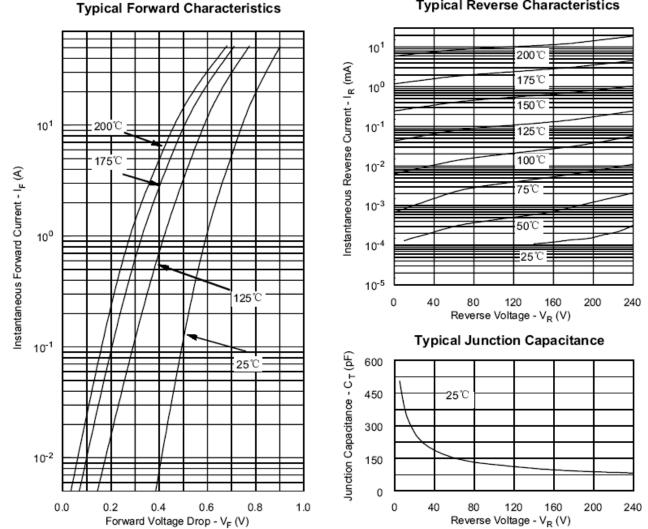
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units	
Max. Junction Temperature	TJ	-	-55 to +175	°C	
Max. Storage Temperature	T _{stg}	-	-55 to +175	°C	
Maximum Thermal Resistance Junction to Case	R _{θJC}	DC operation	0.50	°C/W	
Case Style	SPD-1/A				

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Typical Reverse Characteristics

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