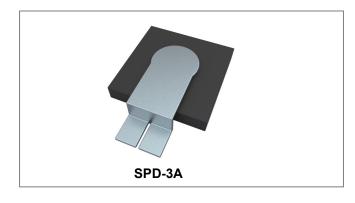






Power Surface Mount Schottky Rectifier (200V, 120Amp)



Features

- 175°C T_J operation
- Low forward voltage drop
- Low reverse leakage current
- · 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

Schematic & Pin Configuration



Applications

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

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	200	V
Average Rectified Forward Current	I _{F (AV)}	50% duty cycle @Tc=116°C, rectangular wave form	120	А
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	1650	Α

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Electrical Characteristics:

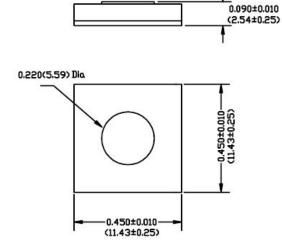
Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop *	V _{F1}	@ 120A, Pulse, T _J = 25 °C	0.84	0.95	V
	V _{F2}	@ 120A, Pulse, T _J = 125 °C	0.73	0.79	V
Reverse Current*	I _{R1}	$@V_R = \text{rated } V_R, \text{ Pulse}, \\ T_J = 25 ^{\circ}\text{C}$	0.0005	2.1	mA
	I _{R2}	$@V_R = \text{rated } V_R, \text{ Pulse}, \\ T_J = 125 ^{\circ}\text{C}$	0.5	48	mA
Junction Capacitance	Ст	$@V_R = 5V, T_C = 25 °C f_{SIG} = 1MHz$	1500	1800	pF
Voltage Rate of Change	dv/dt	-	-	10,000	V/μs

^{*} Pulse width < 300 µs, duty cycle < 2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +175	°C
Storage Temperature	T _{stg}	-	-55 to +175	°C
Typical Thermal Resistance Junction to Case	R _θ JC	DC operation	0.20	°C/W

Mechanical Dimensions (Inches/Millimeters)



SPD-3A

Suffix "R" Denotes Reversed Polarity

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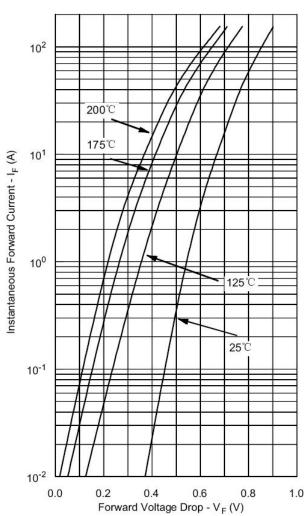




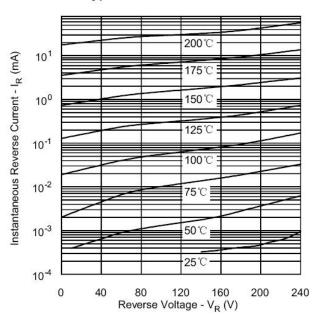


Ratings and Characteristics Curves

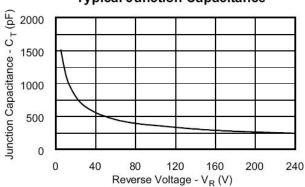
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



Ordering Information

Device	Package	Shipping	
126SPC200(A)	SPD-3A(Pb-Free)	100pcs/ box	

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

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