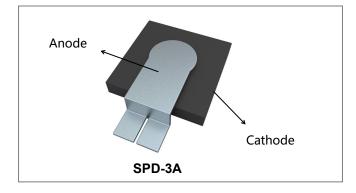


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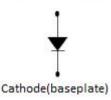


Power Surface Mount Schottky Rectifier (60V, 120Amp)



Schematic & Pin Configuration

Anode(top leadframe)



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
- Baseplate: Pure Sn plated; Terminals: Pure Sn plated
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Applications

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

Maximum Ratings(limiting values, at 25 °C unless otherwise specified)

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	60	V
Average Rectified Forward Current	IF (AV)	50% duty cycle @T _C =116°C, rectangular wave form	120	А
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	1650	А

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Electrical Characteristics:

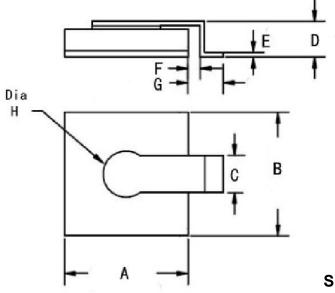
Characteristics	cs Symbol Condition		Тур.	Max.	Units	
Forward Voltage Drop *		@ 5A, Pulse, T _J = 25 °C	0.45	0.50		
	V _{F1}	@ 10A, Pulse, TJ = 25 °C	0.49	0.54	V	
		@ 120A, Pulse, TJ = 25 °C	0.73	0.76		
		@ 5A, Pulse, TJ = 125 °C	0.30	0.36		
	V _{F2}	@ 10A, Pulse, T _J = 125 °C	0.35	0.40	V	
		@ 120A, Pulse, TJ = 125 °C	0.67	0.70		
Reverse Current*		@V _R = 15V ,Pulse, T _J = 25 °C	3	20	uA	
	I _{R1}	@V _R = 60V ,Pulse, T _J = 25 °C	20	100		
		@V _R = 15V ,Pulse, T _J = 125 °C	6	10	mA	
	I _{R2}	@ V _R = 60V ,Pulse, T _J = 125 °C	18	48	IIIA	
Junction Capacitance		@V _R = 5V, T _C = 25 °C	0.400	4000		
	CT	f _{sig} = 1MHz	3400	4800	pF	
Voltage Rate of Change	dv/dt	-	-	10,000	V/μs	

Pulse width < 300 μ s, 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 _{θJC}	DC operation	0.20	°C/W

Mechanical Dimensions (Inches/Millimeters)



SYMBOL	Millimeters		Inches		
STIVIDOL	Min.	Max.	Min.	Max.	
А	11.08	11.78	0.436	0.464	
В	11.08	11.78	0.436	0.464	
С	4.93	5.23	0.194	0.206	
D	2.57	3.37	0.101	0.133	
E	0.20	0.60	0.008	0.024	
F	1.02		0.040		
G	4.52		0.178		
Н	5.59		0.220		

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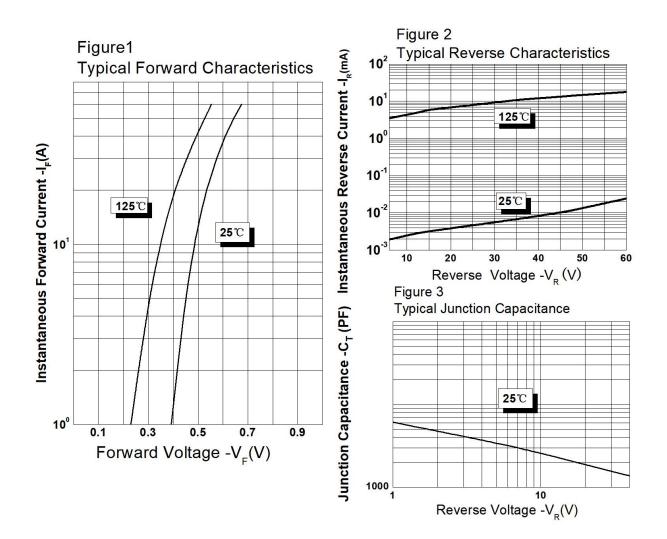


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Ratings and Characteristics Curves



Ordering Information

Device	Package	Shipping	
121SPC060A	SPD-3A(Pb-Free)	100pcs/ box	

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