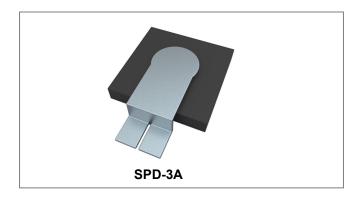






Power Surface Mount Schottky Rectifier (60V, 120Amp)



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
- 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

Schematic & Pin Configuration

Anode(top leadframe)



Cathode(baseplate)

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	-	60	V
Average Rectified Forward Current	I _{F (AV)}	50% duty cycle @Tc=116°C, rectangular wave form	120	Α
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	1650	Α







Electrical Characteristics:

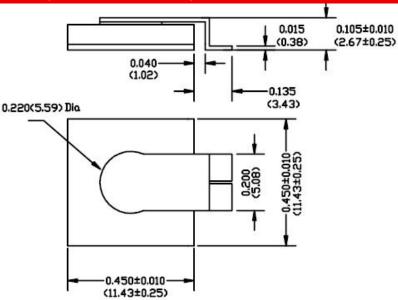
Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop *		@ 5A, Pulse, T _J = 25 °C	0.45	0.50	
	V _{F1}	@ 10A, Pulse, T _J = 25 °C	0.49	0.54	V
		@ 120A, Pulse, T _J = 25 °C	0.73	0.76	
		@ 5A, Pulse, T _J = 125 °C	0.30	0.36	
	V _{F2}	@ 10A, Pulse, T _J = 125 °C	0.35	0.40	V
		@ 120A, Pulse, T _J = 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	uA
	1	@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	2400	4000	
	C⊤	f _{SIG} = 1MHz	3400	4800	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 _{θJC}	DC operation	0.20	°C/W

Mechanical Dimensions (Inches/Millimeters)



Suffix "R" Denotes Reversed Polarity

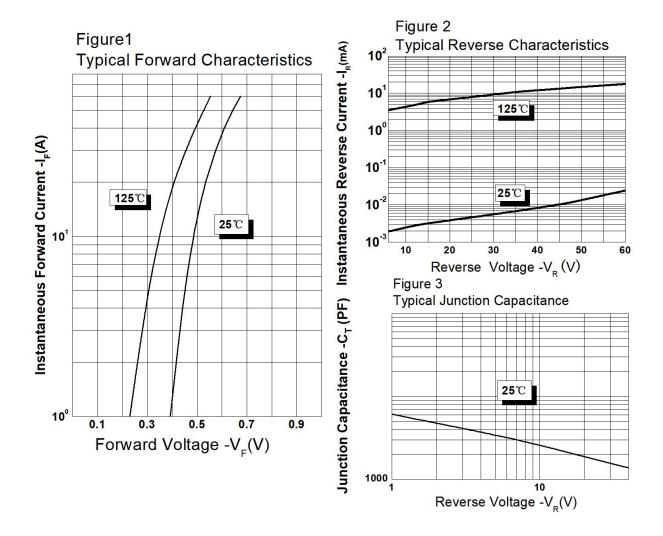
- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •







Ratings and Characteristics Curves



Ordering Information

Device	Package	Shipping	
121SPC060A	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.

- China Germany Korea Singapore United States
 - http://www.smc-diodes.com sales@ smc-diodes.com •







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