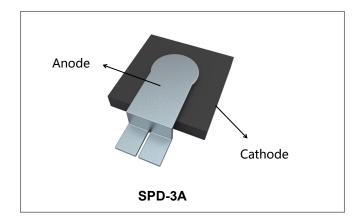


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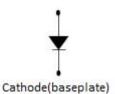


Power Surface Mount Schottky Rectifier (135V/150V, 120Amp)



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
- Base plate: 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	V _{RRM}		135	(129SPC135A)	
Working Peak Reverse Voltage DC Blocking Voltage	V _{RWM} V _R	-	150	(129SPC150A)	V
Average Rectified Forward Current	I _{F (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

Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop *	V _{F1}	@ 120A, Pulse, T _J = 25 °C		0.87	V
	V _{F2}	@ 120A, Pulse, T _J = 125 °C	0.74	0.80	V
Reverse Current*	I _{R1}	$@V_R = rated V_R$, Pulse, T _J = 25 °C	0.04	3.0	mA
	I _{R2}	$@V_R$ = rated V _R , Pulse, T _J = 125 °C	2.26	48.0	mA
Junction Capacitance	Ст	@V _R = 5V, T _C = 25 °C f _{SIG} = 1MHz	1993	3000	pF
Voltage Rate of Change	dv/dt	-	-	10,000	V/μs

* Pulse width < 300 µs, duty cycle < 2%

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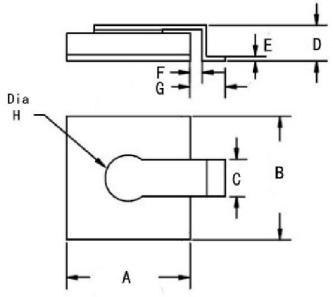
129SPC135A 129SPC150A

RoHS Pb

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

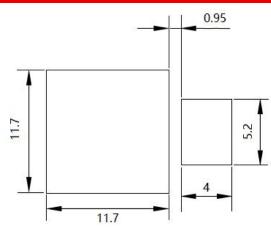
Mechanical Dimensions (Inches/Millimeters)



	Millimeters		Inches	
SYMBOL	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	

SPD-3A

PAD Layout Recommend Size(Millimeters)



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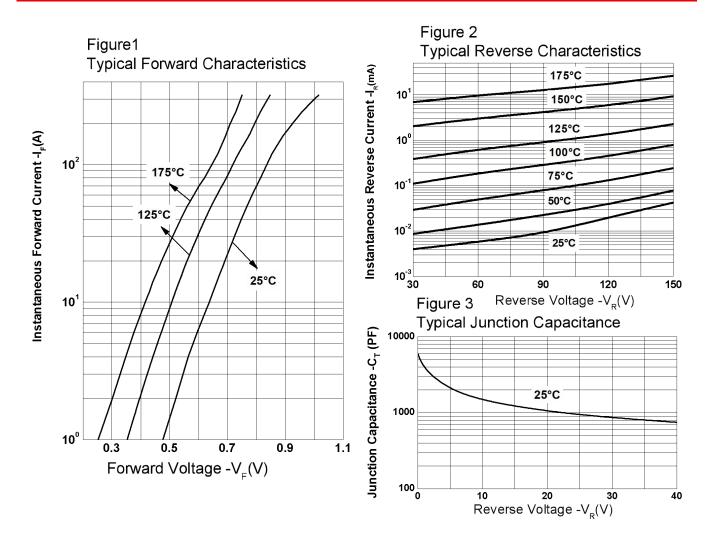


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129SPC135A 129SPC150A



Ratings and Characteristics Curves



Ordering Information				
Device	Package	Shipping		
129SPC135A/129SPC150A	SPD-3A(Pb-Free)	100pcs/ box		

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