

Technical Data Data Sheet N1152, Rev. - **Green Products**

Power Surface Mount Schottky Rectifier (135/150V, 60Amp)

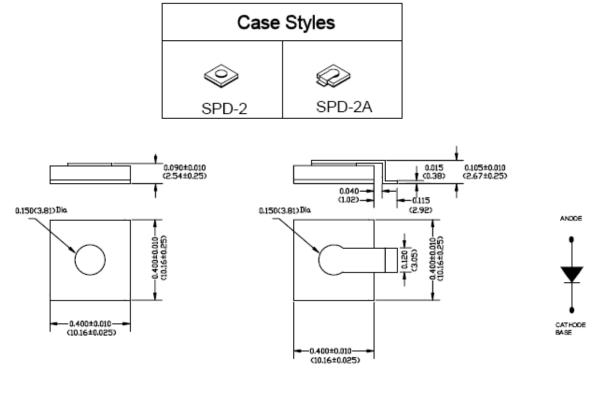
Applications:

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

Features:

- 175 °C T_J operation
- Low forward voltage drop
- 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

Mechanical Dimensions: In Inches / mm



SPD-2

SPD-2A



Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 [86) 25-87123907 •
 FAX (86) 25-87123900 • World Wide Web Site - http://www.sangdest.com.cn • E-Mail Address - sales@ sangdest.com.cn •



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Maximum Ratings:

Characteristics	Symbol	Condition		Max.	Units
Peak Inverse Voltage	V _{RWM}	-	135	69SPB135/A	V
			150	69SPB150/A	
Max. Average Forward	I _{F(AV)}	50% duty cycle, rectangular wave form		60	A
Max. Peak One Cycle Non- Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse		860	A

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop*	V _{F1}	@ 60A, Pulse, T _J = 25 °C	0.87	V
	V _{F2}	@ 60A, Pulse, T _J = 125 °C	0.72	V
Max. Reverse Current (per	I _{R1}	$@V_R = rated V_R$, Pulse,	0.1	mA
leg) *		T _J = 25 °C		
	I _{R2}	$@V_R = rated V_R$, Pulse,	1.6	mA
		T _J = 125 °C		
Max. Junction Capacitance	CJ	@V _R = 5V, T _C = 25 °C	100	pF
(per leg)		f _{SIG} = 1MHz		
		Vsig=50mV(p-p)		

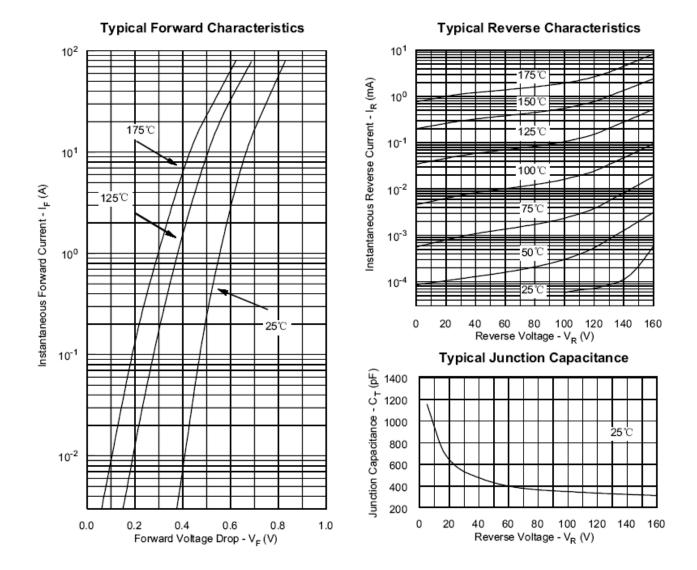
* Pulse Width < 300 μ s, Duty Cycle <2%

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	0.37	°C/W
Case Style		SPD-2/A		



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