

Technical Data Data Sheet N1150, Rev. - **Green Products**

Power Surface Mount Schottky Rectifier (200V, 60Amp)

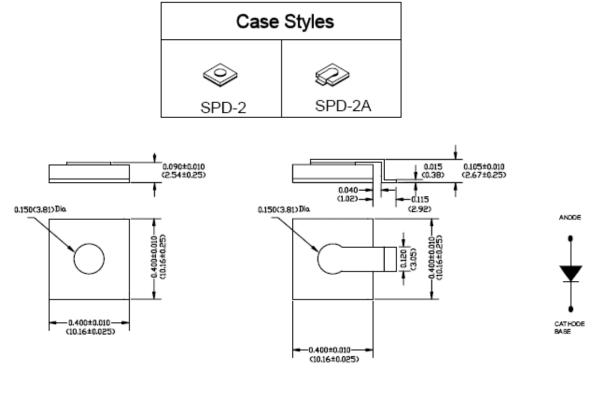
Applications:

- 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



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Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V _{RWM}	-	200	V
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	0.95	V
	V _{F2}	@ 60A, Pulse, T _J = 125 °C	0.79	V
Max. Reverse Current (per leg) *	I _{R1}	$@V_R = rated V_R$, Pulse, T _J = 25 °C	1.1	mA
	I _{R2}	$@V_R = rated V_R$, Pulse, T _J = 125 °C	24	mA
Max. Junction Capacitance (per leg)	CJ	$@V_R = 5V, T_C = 25 \ ^{\circ}C$ $f_{SIG} = 1MHz$ $V_{SIG}=50mV(p-p)$	900	pF

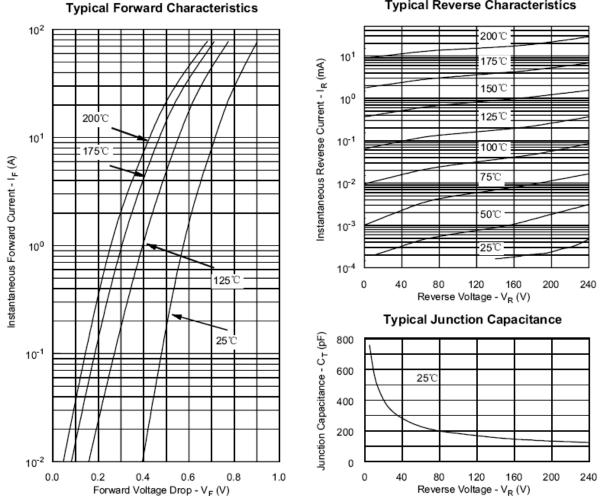
* Pulse Width < 300µs, Duty Cycle <2%

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	$R_{ ext{ heta}JC}$	DC operation	0.37	°C/W
Case Style		SPD-2/A		



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Typical Reverse Characteristics

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