

Technical Data Green Products

Data Sheet N1149, Rev. -

Power Surface Mount Schottky Rectifier (15V, 60Amp)

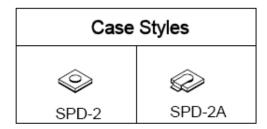
Applications:

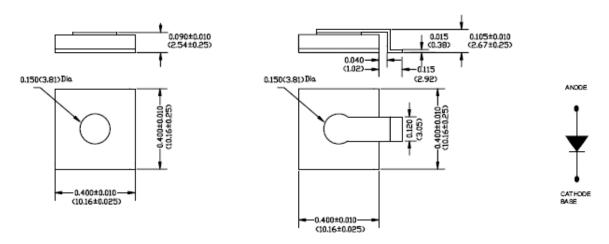
- Switching power supply Redundant power subsystems Reverse battery protection
- Converters Many other high current AC/DC power supplies

Features:

- 100 °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

Suffix "R" Denotes Reversed Polarity

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Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	15	V
Max. Average Forward	I _{F(AV)}	50% duty cycle, rectangular wave form	60	А
Max. Peak One Cycle Non- Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	860	А

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop*	V_{F1}	@ 60A, Pulse, T _J = 25 °C	0.41	V
	V_{F2}	@ 60A, Pulse, T _J = 75 °C	0.37	V
Max. Reverse Current (per leg) *	I _{R1}	$@V_R = \text{rated } V_R, \text{ Pulse}, \\ T_J = 25 ^{\circ}\text{C}$	20	mA
	I _{R2}	$@V_R = \text{rated } V_R, \text{ Pulse}, \\ T_J = 100 ^{\circ}\text{C}$	1000	mA
Max. Junction Capacitance (per leg)	CJ	$@V_R = 5V, T_C = 25 \text{ °C}$ $f_{SIG} = 1MHz$	3600	pF

^{*} Pulse Width < 300µs, Duty Cycle <2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	TJ	-	-55 to +125	°C
Max. Storage Temperature	T_{stg}	-	-55 to +100	°C
Maximum Thermal Resistance Junction to Case	$R_{ heta JC}$	DC operation	0.37	°C/W
Case Style		SPD-2/A		

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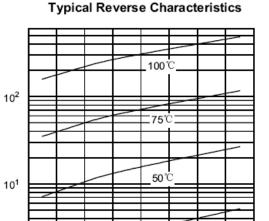
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Typical Forward Characteristics 101 100°C 100°C



.25°

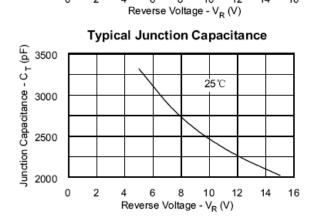
8

10

12

14

16



6

Instantaneous Reverse Current - I_R (mA)

10⁰

0

2

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