

67SPB020/A

Technical Data Data Sheet N1151, Rev. A



67SPB020/A Power Surface Mount Schottky Rectifier



Features

- 150°C T_J operation
- Low forward voltage drop
- 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



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} Vr	-	20	V
Average Rectified Forward Current	I _{F (AV)}	50% duty cycle @T _c =116°C, rectangular wave form	60	А
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	860	A
Non-Repetitive Avalanche Energy	Eas	TJ=25℃,I _{AS} =3.4A,L=6.5mH	37.6	mJ
Repetitive Avalanche Current	I _{AR}	Current decaying linearly to zero in 1 μ sec Frequency limited by T _J max. V _A =1.5×V _R typical	3.4	A

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Electrical Characteristics:

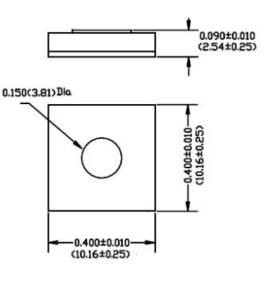
Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop *	V _{F1}	@ 60A, Pulse, T _J = 25 °C	0.42	0.48	V
	V _{F2}	@ 60A, Pulse, T _J = 125 °C	0.33	0.35	V
Reverse Current*	I _{R1}	@V _R = rated V _R , Pulse, T _J = 25 °C	0.7	6	mA
	I _{R2}	@V _R = rated V _R , Pulse, T _J = 125 °C	500	660	mA
Junction Capacitance	CT	@V _R = 5V, T _C = 25 °C f _{SIG} = 1MHz	3300	4050	pF
Voltage Rate of Change	dv/dt	-	-	10,000	V/µs

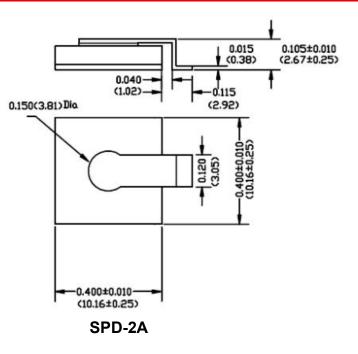
* Pulse width < 300 μ s, duty cycle < 2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Typical Thermal Resistance Junction to Case	$R_{ ext{ heta}JC}$	DC operation	0.37	°C/W
Approximate Weight	wt	-	1.1	g

Mechanical Dimensions (Inches/Millimeters)





SPD-2



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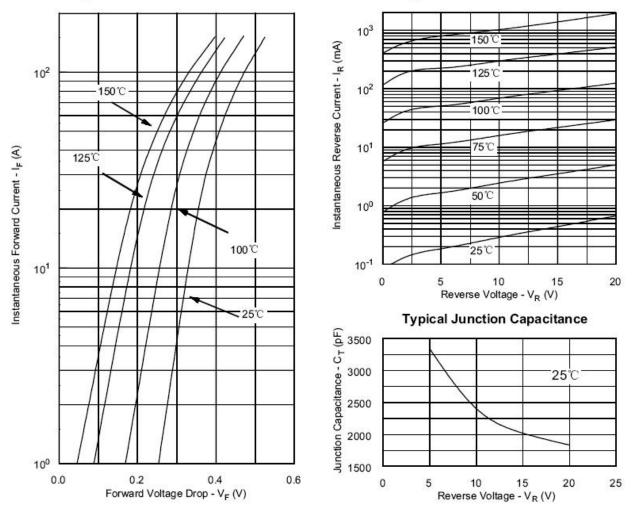


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Ratings and Characteristics Curves



Typical Forward Characteristics

Typical Reverse Characteristics

Ordering Information

Device	Package	Shipping
67SPB020(A)	SPD-2A(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.

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