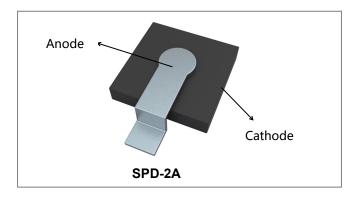


67SPB020A

Technical Data Data Sheet N1151, Rev. B



67SPB020A Power Surface Mount Schottky Rectifier

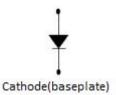


Features

- 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

Anode(top leadframe)



Maximum Ratings:

Characteristics Symbol Condition Max. Units Peak Repetitive Reverse Voltage VRRM Working Peak Reverse Voltage V 20 VRWM DC Blocking Voltage VR 50% duty cycle @T_c =116°C, Average Rectified Forward Current 60 А IF (AV) rectangular wave form Peak One Cycle Non-Repetitive Surge 8.3 ms, half Sine pulse, T_J = 25 °C 860 А IFSM Current Non-Repetitive Avalanche Energy TJ=25℃,IAS=3.4A,L=6.5mH 37.6 Eas mJ Current decaying linearly to zero in 1 usec Frequency limited by T_J max. **Repetitive Avalanche Current** 3.4 IAR А $V_A=1.5 \times V_R$ typical

http://www.smc-diodes.com - sales@ smc-diodes.com •

Applications

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



Technical Data Data Sheet N1151, Rev. B

67SPB020A

RoHS 🗭

Electrical Characteristics:

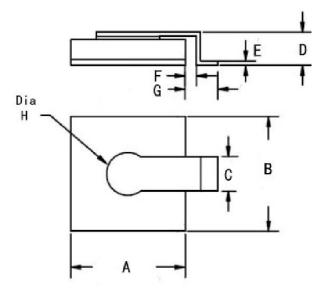
Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop *	V _{F1}	@ 60A, Pulse, T _J = 25 °C	0.50	0.48	V
	V _{F2}	@ 60A, Pulse, T _J = 125 °C	0.41	0.35	V
Reverse Current*	I _{R1}	@V _R = rated V _R , Pulse, T _J = 25 °C	0.17	6	mA
	I _{R2}	@V _R = rated V _R , Pulse, T _J = 125 °C	38	660	mA
Junction Capacitance	Ст	@V _R = 5V, T _C = 25 °C f _{SIG} = 1MHz	2800	4050	pF
Voltage Rate of Change	dv/dt	-	-	10,000	V/μs

* Pulse width < 300 µs, 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 _{0JC}	DC operation	0.37	°C/W
Approximate Weight	wt	-	1.1	g

Mechanical Dimensions (Inches/Millimeters)



SYMBOL	MillImeters		Inches		
STNIDUL	Min.	Max.	Min.	Max.	
А	9.81	10.51	0.386	0.414	
В	9.81	10.51	0.386	0.414	
С	2.90	3.20	0.114	0.126	
D	2.42	2.92	0.095	0.115	
E	0.33	0.47	0.013	0.019	
F	1.02		0.040		
G	4.02		0.158		
Н	3.81		0.150		



• http://www.smc-diodes.com - sales@ smc-diodes.com •

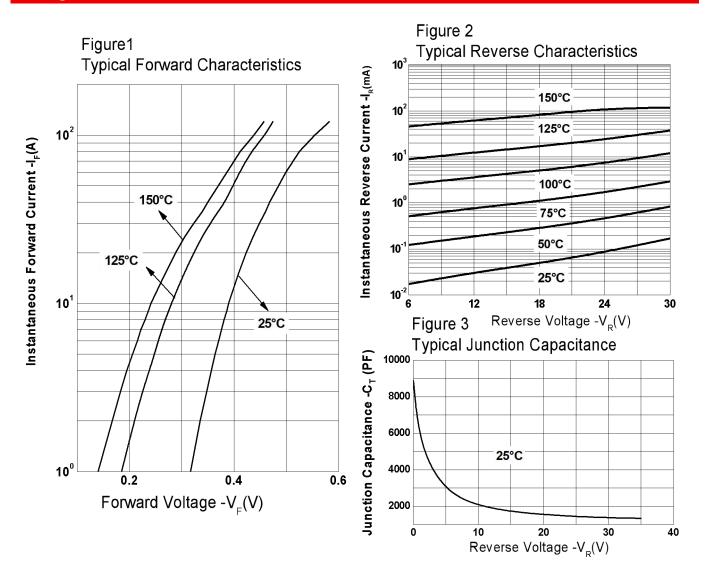


67SPB020A

Technical Data Data Sheet N1151, Rev. B



Ratings and Characteristics Curves



Ordering Information

Device	Package	Shipping
67SPB020A	SPD-2A(Pb-Free)	100pcs/ box

http://www.smc-diodes.com - sales@ smc-diodes.com •



Technical Data Data Sheet N1151, Rev. B





DISCLAIMER:

1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the SMC Diode Solutions sales department for the latest version of the datasheet(s).

2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.

3- In no event shall SMC Diode Solutions be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet(s). SMC Diode Solution assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.
4- In no event shall SMC Diode Solutions be liable for any failure in a semiconductor device or any secondary damage resulting from use

at a value exceeding the absolute maximum rating.

5- No license is granted by the datasheet(s) under any patents or other rights of any third party or SMC Diode Solutions.

6- The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed written permission of SMC Diode Solutions.

7- The products (technologies) described in the datasheet(s) are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations..

• China - Germany - Korea - Singapore - United States •

http://www.smc-diodes.com - sales@ smc-diodes.com -