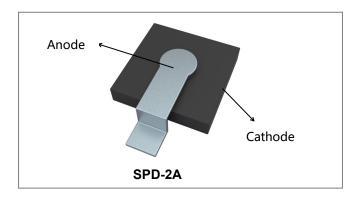






62SPB030A Power Surface Mount Schottky Rectifier

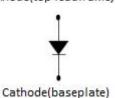


Features

- 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)



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} V _R	-	30	V
Average Rectified Forward Current	I _{F (AV)}	50% duty cycle @T _C =116°C, rectangular wave form	60	Α
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse, T _J = 25 °C	860	Α
Non-Repetitive Avalanche Energy	Eas	T _J =25°C,I _{AS} =8.0A, L=1.7mH	54	mJ
Repetitive Avalanche Current	I _{AR}	I _{AS} decaying linearly to 0 in 1 μ sec Frequency limited by T _J max. V _A =1.5 \times V _R	8.0	А

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Electrical Characteristics:

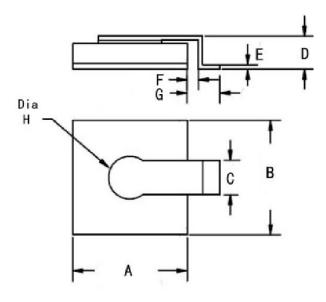
Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop *	V _{F1}	@ 60A, Pulse, T _J = 25 °C	0.50	0.53	V
	V _{F2}	@ 60A, Pulse, T _J = 125 °C	0.41	0.43	V
Reverse Current*	I _{R1}	$@V_R = \text{ rated } V_R, \text{ Pulse}, \\ T_J = 25 ^{\circ}\text{C}$	0.17	6.0	mA
	I _{R2}	@V _R = rated V _R , Pulse, T _J = 125 °C	38	300	mA
Junction Capacitance	Ст	$@V_R = 5V, T_C = 25 ^{\circ}C$ $f_{SIG} = 1MHz$	2800	3300	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 ₀ JC	DC operation	0.37	°C/W
Approximate Weight	wt	-	1.1	g

Mechanical Dimensions (Inches/Millimeters)



SYMBOL MillImeters		Inches		
STIVIBUL	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	

SPD-2A

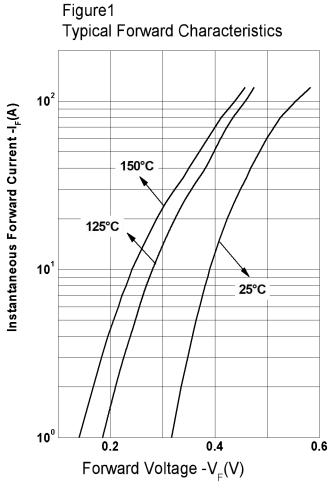
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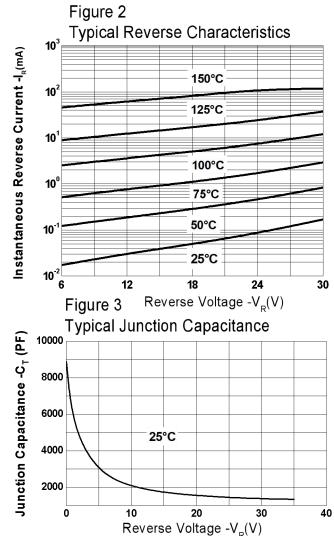






Ratings and Characteristics Curves





Ordering Information

Device	Package	Shipping	
62SPB030A	SPD-2A(Pb-Free)	100pcs/ box	







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