

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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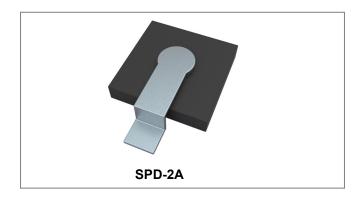








60SPB060/A Power Surface Mount Schottky Rectifier



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
- 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} V _R	-	60	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	860	Α
Non-Repetitive Avalanche Energy	E _{AS}	T _J =25℃, I _{AS} =8.0A, L=1.7mH	54	mJ
Repetitive Avalanche Current	I _{AR}	I_{AS} decaying linearly to 0 in 1µsec 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	0.58	0.60	V
	V _{F2}	@ 60A, Pulse, T _J = 125 °C	0.51	0.57	V
Reverse Current*	I _{R1}	$@V_R = \text{rated } V_R, \text{ Pulse}, \\ T_J = 25 ^{\circ}\text{C}$	0.4	6	mA
	I _{R2}	$@V_R = \text{rated } V_R, \text{ Pulse}, \\ T_J = 125 ^{\circ}\text{C}$	200	420	mA
Junction Capacitance	Ст	@V _R = 5V, T _C = 25 °C f _{SIG} = 1MHz	2000	2400	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) 0.090±0.010 0.105±0.010 0.015 (2.54±0.25) (0.38) (2.67±0.25) 0.040 0.150(3.81)Dia 0.150(3.81)Dia (2.92) 0.400±0.010-(10.16±0.025) 0.400±0.010-(10.16±0.025) SPD-2 SPD-2A

Suffix "R" Denotes Reversed Polarity

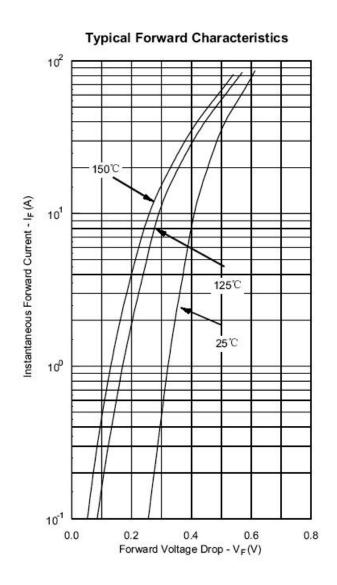
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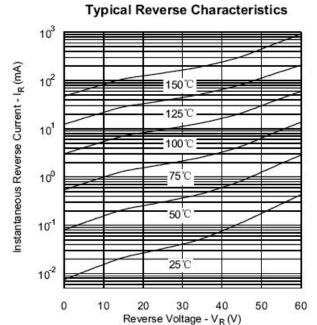


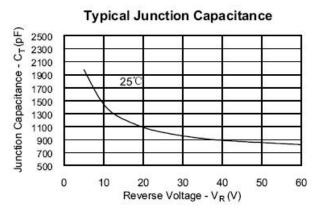




Ratings and Characteristics Curves







Ordering Information

Device	Package	Shipping	
60SPB060(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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