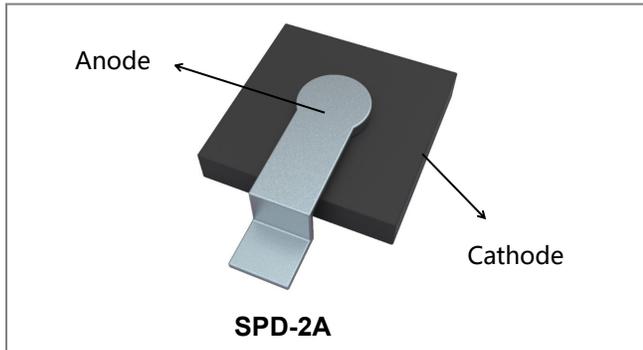


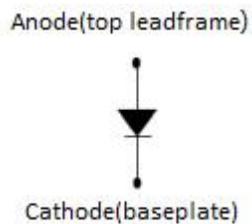
## 66SPB200A Power Surface Mount Schottky Rectifier



### Features

- 175°C T<sub>J</sub> operation
- Low forward voltage drop
- High surge capacities
- High frequency operation
- Guaranteed reverse avalanche capability
- Low profile surface mount package
- Base plate: 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(limiting values, at 25 °C unless otherwise specified):

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	-	200	V
Average Rectified Forward Current	I <sub>F(AV)</sub>	50% duty cycle @T <sub>c</sub> =116°C, rectangular wave form	60	A
Peak One Cycle Non-Repetitive Surge Current	I <sub>FSM</sub>	8.3 ms, half Sine pulse	800	A

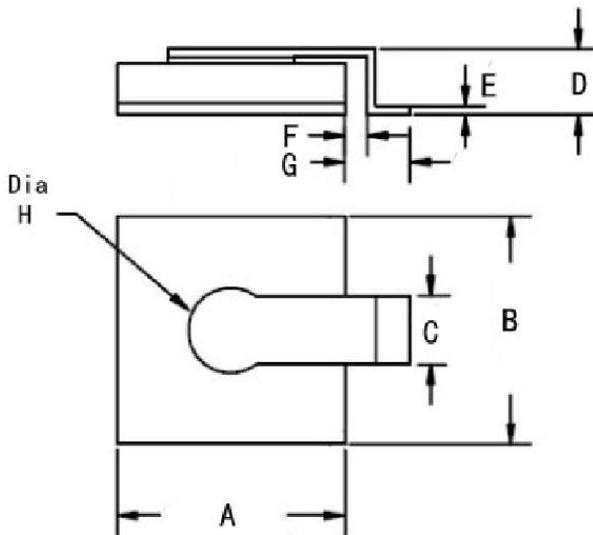
**Electrical Characteristics:**

Characteristics	Symbol	Condition	Typ.	Max.	Units
Forward Voltage Drop *	$V_{F1}$	@ 60A, Pulse, $T_J = 25\text{ }^\circ\text{C}$	0.88	0.95	V
	$V_{F2}$	@ 60A, Pulse, $T_J = 125\text{ }^\circ\text{C}$	0.77	0.79	V
Reverse Current*	$I_{R1}$	@ $V_R = \text{rated } V_R$ , Pulse, $T_J = 25\text{ }^\circ\text{C}$	0.1	1100	$\mu\text{A}$
	$I_{R2}$	@ $V_R = \text{rated } V_R$ , Pulse, $T_J = 125\text{ }^\circ\text{C}$	0.07	24	mA
Junction Capacitance	$C_T$	@ $V_R = 5\text{V}$ , $T_C = 25\text{ }^\circ\text{C}$ $f_{SIG} = 1\text{MHz}$	740	900	pF
Voltage Rate of Change	$dv/dt$	-	-	10,000	$\text{V}/\mu\text{s}$

\* Pulse width < 300  $\mu\text{s}$ , duty cycle < 2%

**Thermal-Mechanical Specifications:**

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	$T_J$	-	-55 to +175	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-	-55 to +175	$^\circ\text{C}$
Typical Thermal Resistance Junction to Case	$R_{\theta JC}$	DC operation	0.37	$^\circ\text{C}/\text{W}$
Approximate Weight	wt	-	1.1	g

**Mechanical Dimensions (Inches/Millimeters)**


SYMBOL	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	9.81	10.51	0.386	0.414
B	9.81	10.51	0.386	0.414
C	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	
H	3.81		0.150	

**SPD-2A**

**Ratings and Characteristics Curves**

Figure 1  
Typical Forward Characteristics

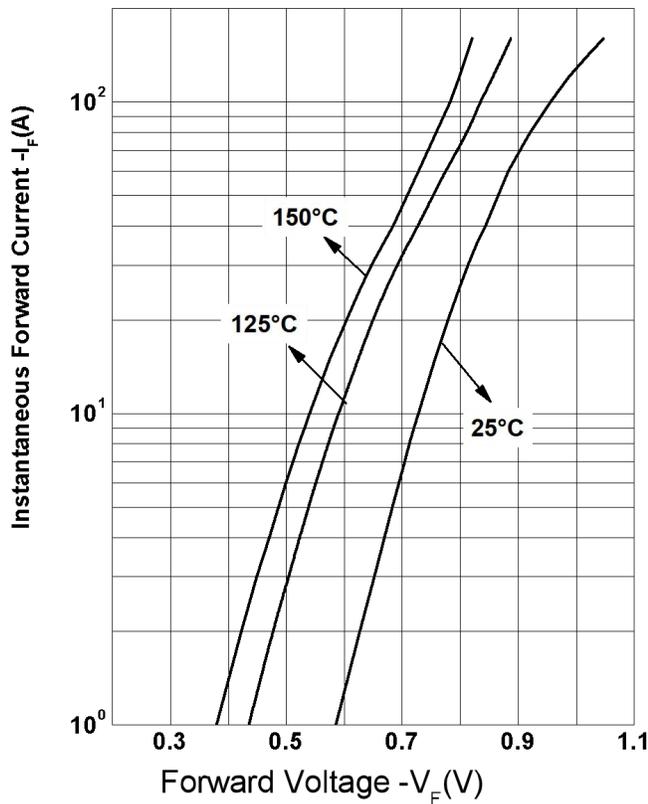


Figure 2  
Typical Reverse Characteristics

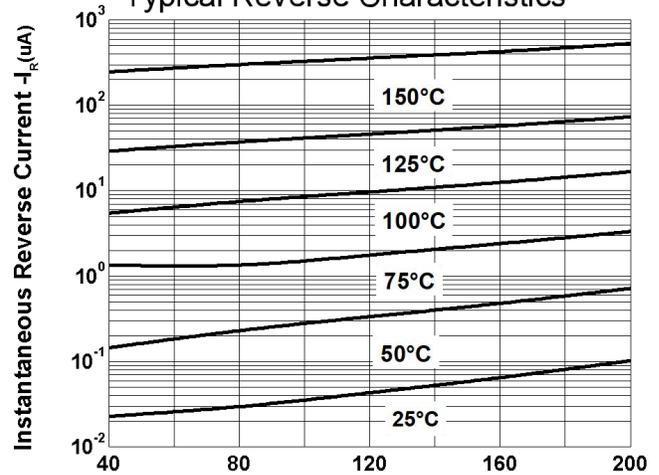
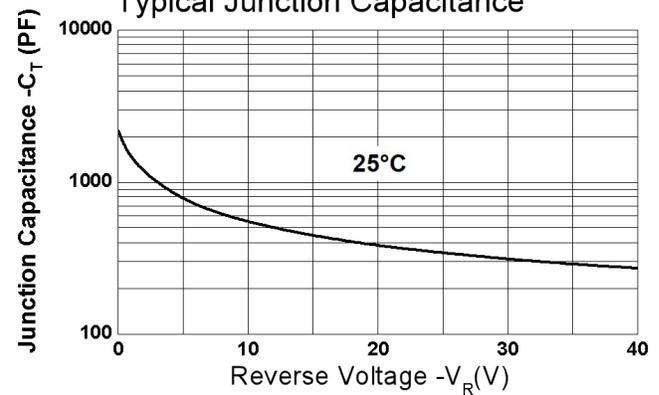


Figure 3  
Reverse Voltage -  $V_R$  (V)  
Typical Junction Capacitance



**Ordering Information**

Device	Package	Shipping
66SPB200A	SPD-2A(Pb-Free)	100pcs/ box

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