

Green Products

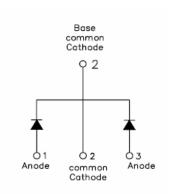
SBR3060CT SCHOTTKY RECTIFIER

Applications:

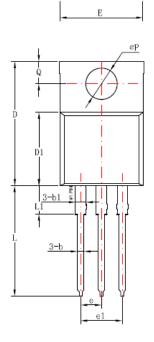
- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection

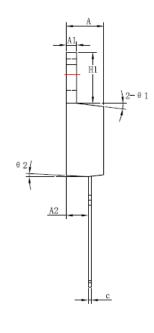
Features:

- 150°C TJ operation
- Center tap configuration
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



Mechanical Dimensions (In mm / Inches) and Marking:





Cumbal	Dimensions in				
Symbol	Min	millimeters			
	Min	Typical	Max		
Α	4.42	4.57	4.72		
A1	1.17	1.27	1.37		
A2	2.59	2.69	2.89		
b	0.71	0.81	0.96		
b1		1.27			
С	0.36	0.38	0.61		
D	14.94	15.24	15.54		
D1	8.85	9.00	9.15		
E	10.01	10.16	10.31		
е		2.54			
e1		5.06			
H1	6.04	6.24	6.44		
L	12.7	13.56	13.78		
L1		3.5			
ФР	3.74	3.84	4.04		
Q	2.54	2.74	2.94		
Θ1		7°			
Θ2		3°			
Θ3		4°			

OPTION1 (HD)

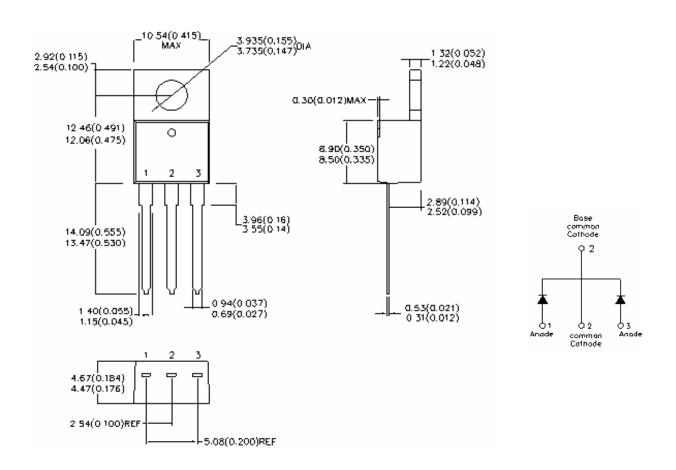
[•] Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 📱 (86) 25-87123907 •

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OPTION2 (CJ)
TO-220AB

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Marking Diagram:



Where XXXXX is YYWWL

SBR = Device Type

30 = Forward Current (30A) 60 = Reverse Voltage (60V)

CT = Configuration

SSG = SSG YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
SBR3060CT	TO-220AB (Pb-Free)	50 pcs / tube

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	60	V
Average Rectified Output Current	Ιο	50Hz Full Sine Wave Resistive Load @TC = 80°C	30	А
RMS Forward Current	I _{F(RMS)}	-	22.2	Α
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	180	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop (per leg) *	V _F 1	@ 10 A, Pulse, T _J = 25℃	0.69	V
Max. Reverse Current (per leg)	I _{R1}	$@V_R = rated V_R$ $T_C = 25 °C$	1.0	mA
Max. Junction Capacitance (per leg)	Ст	@V _R = 5V, T _C = 25 °C f _{SIG} = 1MHz	400	pF
Max. Voltage Rate of Change	dv/dt	-	10,000	V/us

^{*} Pulse Width < 300µs, Duty Cycle <2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-55 to +150	°C
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction toCase (per leg)	R _{θJC}	DC operation	2.3	°C/W
Approximate Weight	wt	-	2.0	g
Case Style	TO-220AB			

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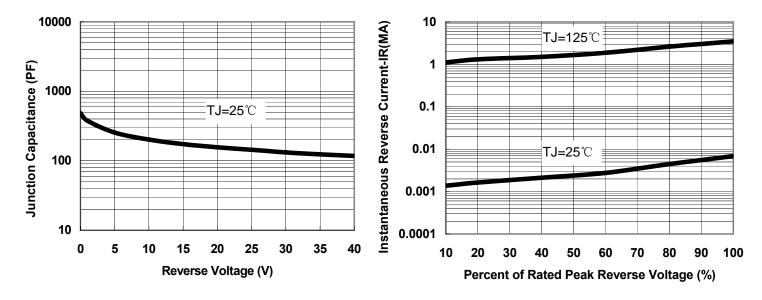


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

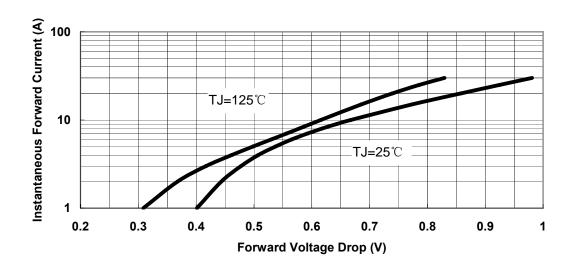


Fig.3-Typical Instantaneous Forward Voltage Characteristics

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SBR3060CT

Technical Data Data Sheet N0898, Rev. - **Green Products**

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