

Technical Data Data Sheet N0912, Rev. - **Green Products**

SBR20150CT SCHOTTKY RECTIFIER

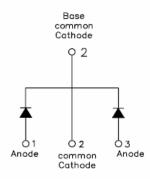
Applications:

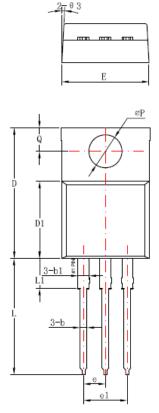
- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection

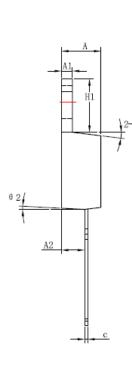
Features:

- 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:







	Dimensions in			
Symbol	millimeters			
	Min	Typical	Мах	
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		
ΦΡ	3.74	3.84	4.04	
Q	2.54	2.74	2.94	
Θ1		7 °		
Θ2		3°		
Θ3		4 °		

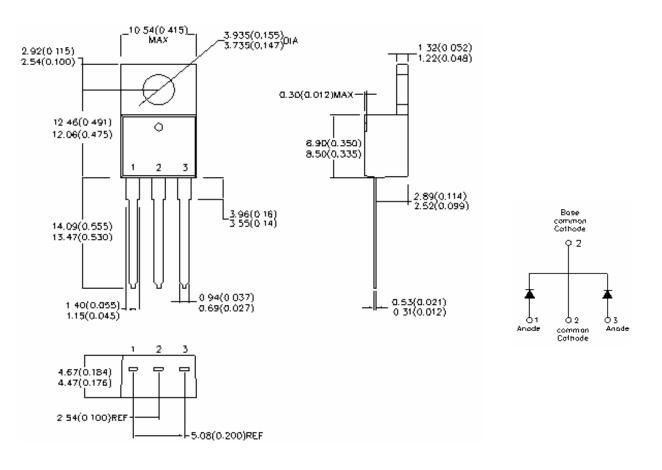
OPTION1 (HD)

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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Where XXXXX is YYWWL

= Device Type

= Configuration

= Lot Number

= SSG

= Year = Week

= Forward Current (20A)

= Reverse Voltage (150V)

SBR

20

150

СТ

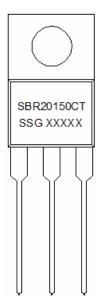
SSG

YΥ

WW

L

Marking Diagram:



Cautions: Molding resin Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping	
SBR20150CT	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}	-	150	V
Max. Average Forward	I _{F(AV)}	50% duty cycle @T _c =133°C,	10(Per leg)	A
		rectangular wave form	20(Per device)	
Max. Peak One Cycle				
Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	150	А
(per leg)				

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V _{F1}	@ 10A, Pulse, T _J = 25 °C	0.95	V
(per leg)*	VF2	@ 10A, Pulse, T _J = 125 °C	0.85	V
Max. Reverse Current at DC condition (per leg)	I _{R1}	@V _R = rated V _R T _J = 25 °C	1.0	mA
	Ir2	@V _R = rated V _R T _J = 125 °C	6	mA
Repetitive peak reverse current	Irrm	tp = 2 μs square F= 1 kHz	1	А
Max. Junction Capacitance (per leg)	C _T	@V _R = 5V, T _C = 25 °C f _{SIG} = 1MHz	400	pF
Max. Voltage Rate of Change	dv/dt	_	10,000	V/µs

* Pulse Width < 300µs, Duty Cycle <2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	TJ	-	-55 to +150	°C
Max. Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal				
Resistance Junction to Case	$R_{ ext{ heta}JC}$	DC operation	3.5	°C/W
(per leg)				
Approximate Weight	wt	-	2.0	g
Case Style	TO-220AB			

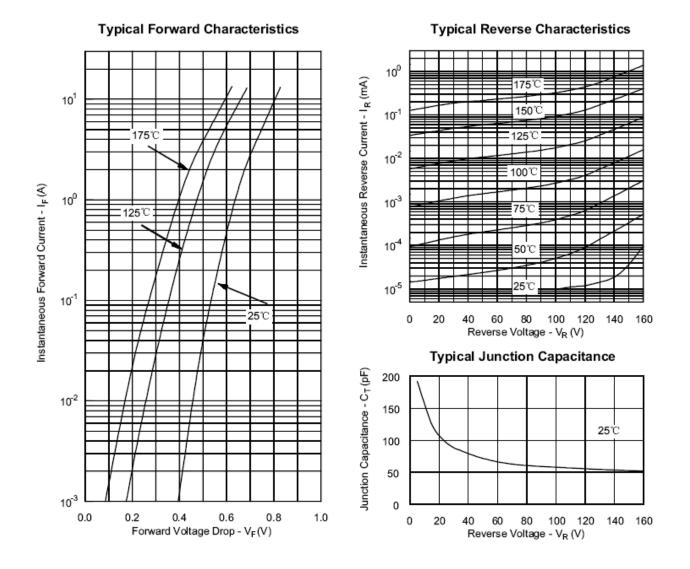
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