Green Products

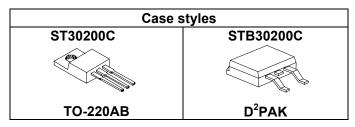
ST30200C/STB30200C SCHOTTKY RECTIFIER

Applications:

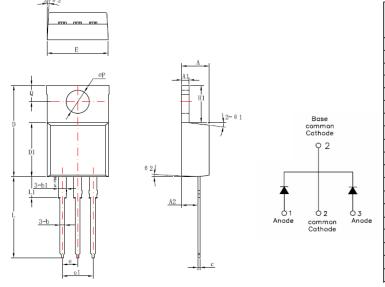
- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection

Features:

- 150 °C T_J operation
- Center tap configuration
- Ultralow 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



	Dilliensions in					
Symbol	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			
e		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°				

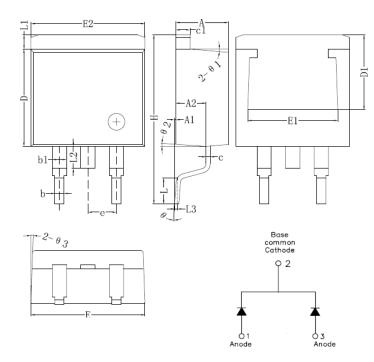
Dimensions in

TO-220AB

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

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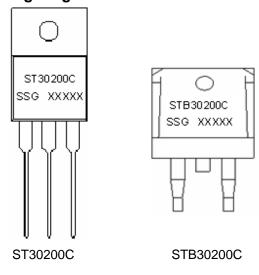
•	D	Dimensions in			
Symbol	millimeters				
-	Min.	Typical	Max.		
Α	4.55	4.70	4.85		
A1	0	0.10	0.25		
A2	2.59	2.69	2.89		
b	0.71	0.81	0.96		
b1		1.27			
С	0.36	0.38	0.61		
c1	1.17	1.27	1.37		
D	8.55	8.70	8.85		
D1	6.40				
Е	10.01	10.16	10.31		
E1	7.6				
E2	9.98	10.08	10.18		
е		2.54			
Н	14.6	15.1	15.6		
L	2.00	2.30	2.70		
L1	1.17	1.27	1.40		
L2			2.20		
L3		0.25BSC			
е	0	-	8°		
e1		5°			
e2		4°			
e3		4°			

 D^2PAK



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Marking Diagram:



Where XXXXX is YYWWL

ST = Device Type
B = Package type
30 = Forward Current (30A)
200 = Reverse Voltage (200V)
C = Configuration
SSG = SSG

YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
ST30200C	TO-220AB(Pb-Free)	50pcs / tube
STB30200C	D² PAK(Pb-Free)	800pcs / reel

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}	-	200	V
Average Forward Current	I _{F(AV)}	50% duty cycle @T _C = 100°C, rectangular wave form	30	А
Peak One Cycle Non-Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	200	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop (per	V_{F1}	@ 15A, Pulse, T _J = 25 °C	1.10	V
leg) *	V_{F2}	@ 15A, Pulse, T _J = 125 °C	0.72	V
Reverse Current (per leg)	I _{R1}	$@V_R = \text{rated } V_R$ $T_J = 25 ^{\circ}\text{C}$	0.16	mA
	I _{R2}	$@V_R = \text{rated } V_R$ $T_J = 125 ^{\circ}\text{C}$	12	mA

Pulse Width < 300µs, Duty Cycle <2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	T _J	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Maximum Thermal Resistance Junction to Case(per leg)	$R_{ heta JC}$	DC operation	2.0	°C/W
Approximate Weight	wt	1	2/1.85	g
Case Style		TO-220AB/ D ² PAK		



ST30200C STB30200C

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Technical Data Data Sheet N1438, Rev. -

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