

SBR30200CT SBR30200CTFP

30A SBR[®] Super Barrier Rectifier

Features Mechanical Data

- Low Forward Voltage Drop
- Excellent High Temperature Stability
- Super Barrier Design
- Soft, Fast Switching Capability
- Molded Plastic TO-220AB and ITO-220AB packages
- Lead Free Finish, RoHS Compliant (Note 2)

- Case Material: Molded Plastic, UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Matte Tin Finish annealed over Copper leadframe. Solderable per MIL-STD-202, Method 208 (3)
- Marking: See Page 3
- Ordering Information: See Page 3

Maximum Ratings @ T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V_{RWM}	200	V
DC Blocking Voltage	V_{RM}		
RMS Reverse Voltage	$V_{R(RMS)}$	141	V
Average Rectified Output Current @ T _C = 150°C	Io	30	Α
Non-Repetitive Peak Forward Surge Current 8.3ms	I _{FSM}	200	А
Single Half Sine-Wave Superimposed on Rated Load	I-2M	200	A
Peak Repetitive Reverse Surge Current (2uS-1Khz)	I _{RRM}	2	Α
Maximum Thermal Resistance (per leg)			
Package = TO-220AB	ReJC	2	°C/W
Package = ITO-220AB		4	
Operating and Storage Temperature Range	T_{J}, T_{STG}	-65 to +175	°C

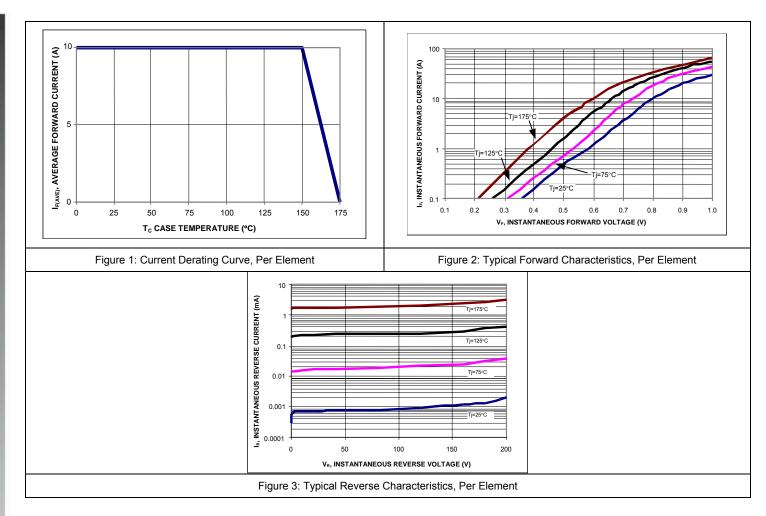
Electrical Characteristics @ TA = 25°C unless otherwise specified

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 1)	$V_{(BR)R}$	200	-	-	V	I _R = 0.1 mA
Forward Voltage Drop	V _F	-	- 0.72	0.98 0.88	V	I _F = 15A, T _J = 25°C I _F = 15A,T _J = 125°C
Leakage Current (Note 1)	I _R	-	-	0.1 10	mA	V _R = 200V, T _J = 25 °C V _R = 200V, T _J = 125 °C

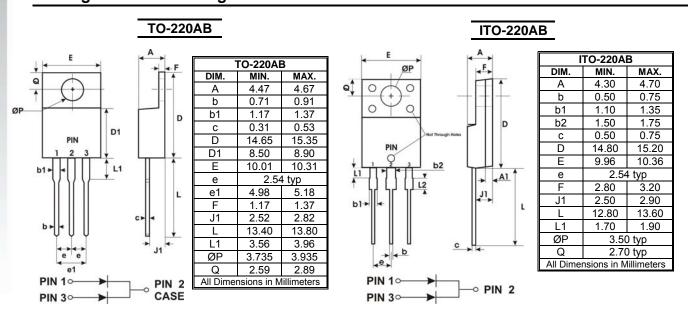
Notes:

- 1. Short duration pulse test used to minimize self-heating effect.
- 2. RoHS revision 13.2.2003. High temperature solder exemption applied, see *EU Directive Annex Note* 7.





Package Outline Drawings





Marking, Polarity, Weight & Ordering Information

	SBR30200CT	SBR30200CTFP
Case Style		
	TO-220AB	ITO-220AB
Polarity	Case Common 3 Anode Cathode Anode	Common 3 Anode Anode
Marking	SBR30200CT YYWW AB	SBR30200CTFP YYWW AB
Weight	2.1g	1.9g

Ordering	SBR30200CT	SBR30200CTFP	
Information	50 pieces/tube	50 pieces/tube	
Date Code	YY = Last two digits of year, ex = 06 = 2006 WW = Week (01-52)		
Other Marking	A = Foundry Code		
Information	B = Assembly Code		

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