

SBR30A60CT SBR30A60CTFP

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}	60	V
DC Blocking Voltage	V_{RM}		
RMS Reverse Voltage	$V_{R(RMS)}$	42	V
Average Rectified Output Current @ T _C = 110°C	Io	30	Α
Non-Repetitive Peak Forward Surge Current 8.3ms		250	^
Single Half Sine-Wave Superimposed on Rated Load	IFSM	250	A
Peak Repetitive Reverse Surge Current (2uS-1Khz)	I _{RRM}	3	Α
Maximum Thermal Resistance (per leg)			
Package = TO-220AB	R _{eJC}	2	°C/W
Package = ITO-220AB		4	
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

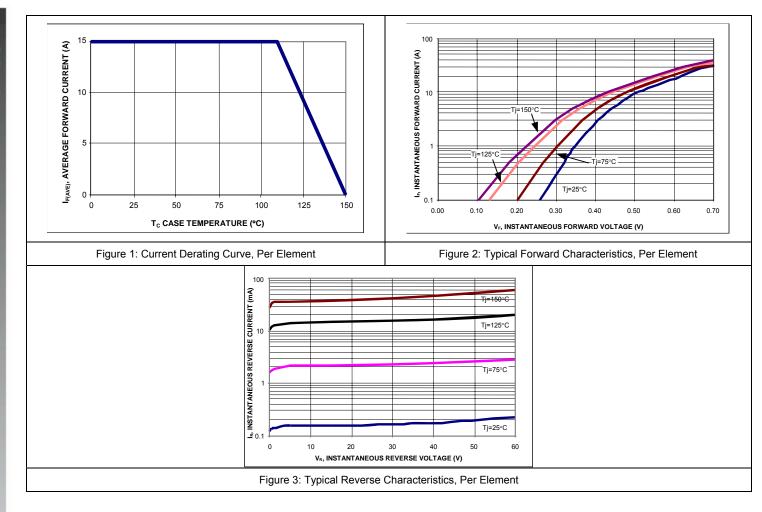
Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 1)	$V_{(BR)R}$	60	-	-	V	I _R = 0.5 mA
Forward Voltage Drop	V _F	-	- 0.53 -	0.60 0.55 0.75	V	I _F = 15A, T _J = 25°C I _F = 15A, T _J = 125°C I _F = 30A, T _J = 25°C
Leakage Current (Note 1)	I _R	-	-	0.5 100	mA	V _R = 60V, T _J = 25 °C V _R = 60V, T _J = 125 °C

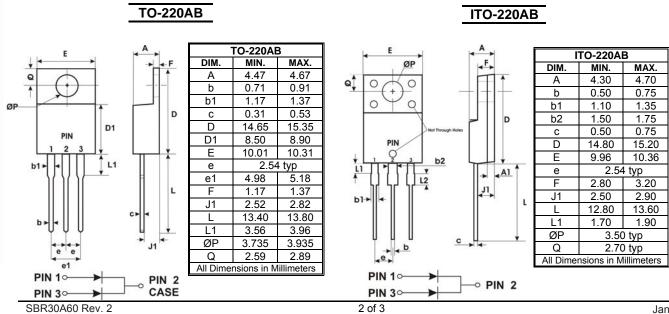
Notes:

- 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



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Marking, Polarity, Weight & Ordering Information

	SBR30A60CT	SBR30A60CTFP		
Case Style				
	TO-220AB	ITO-220AB		
Polarity	Case Common 3 Anode Cathode Anode	Common 3 Anode Cathode Anode		
Marking	D¦¦ SBR 30A60CT YYWW AB	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐		
Weight	2.1g	1.9g		

Ordering Information	SBR30A60CT 50 pieces/tube	SBR30A60CTFP 50 pieces/tube	
Date Code	YY = Last two digits of year, ex = 06 = 2006 WW = Week (01-52)		
Other Marking Information	A = Foundry Code B = Assembly Code		

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