

SBR10100CT SBR10100CTFP

10A SBR[®] Super Barrier Rectifier

Features

- 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)

Mechanical Data

- 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}	100	V
DC Blocking Voltage	V _{RM}		
RMS Reverse Voltage	V _{R(RMS)}	71	V
Average Rectified Output Current @ T _c = 115°C	lo	10	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	120	А
Peak Repetitive Reverse Surge Current (2uS-1Khz)	I _{RRM}	2	A
Maximum Thermal Resistance (per leg) Package = TO-220AB Package = ITO-220AB	R _{eJC}	2 4	°C/W
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}	100	-	-	V	I _R = 0.2 mA
Forward Voltage Drop	V _F	-	- 0.64	0.80 0.71	V	I _F = 5A, T _J = 25°C I _F = 5A,T _J = 125°C
Leakage Current (Note 1)	I _R	-	-	0.2 25	mA	V _R = 100V, T _J = 25 °C V _R = 100V, T _J = 125 °C

Notes:

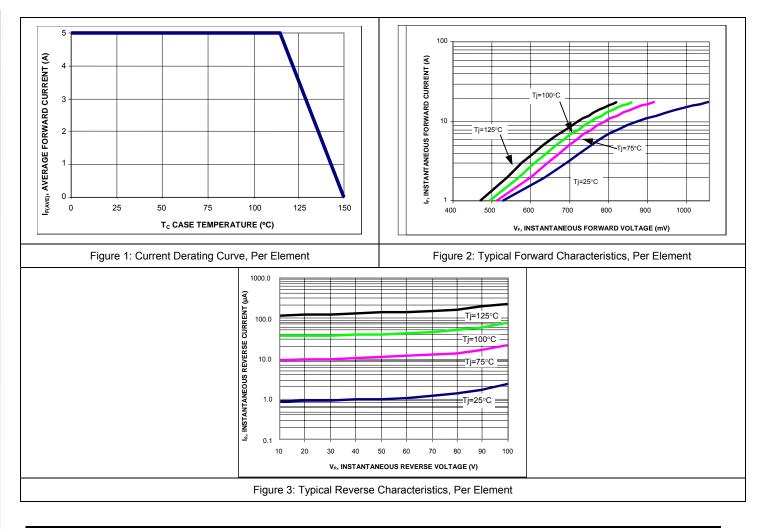
1. Short duration pulse test used to minimize self-heating effect.

2. RoHS revision 13.2.2003. High temperature solder exemption applied, see EU Directive Annex Note 7.

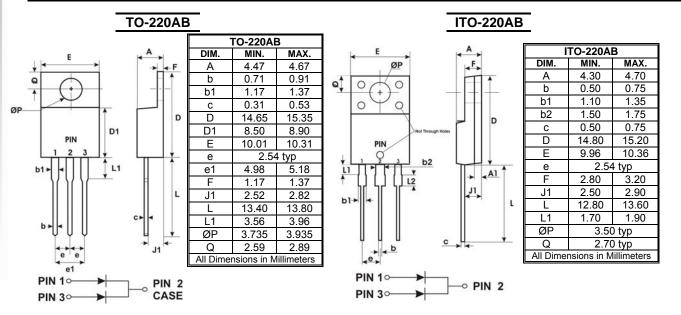
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Package Outline Drawings





Marking, Polarity, Weight & Ordering Information

	SBR10100CT	SBR10100CTFP		
Case Style				
	TO-220AB	ITO-220AB		
Polarity	Case	Anode		
Marking		SBR10100CTFP YYWW AB		
Weight	2.1g	1.9g		

Ordering Information	SBR10100CT 50 pieces/tube	SBR10100CTFP 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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