

SBR4060CT SBR4060CTFP

40A 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}	60	V	
DC Blocking Voltage	V _{RM}			
RMS Reverse Voltage	V _{R(RMS)}	42	V	
Average Rectified Output Current @T _c = 110°C	lo	40	A	
Non-Repetitive Peak Forward Surge Current 8.3ms		200	•	
Single Half Sine-Wave Superimposed on Rated Load	IFSM	280	A	
Peak Repetitive Reverse Surge Current (2uS-1Khz)	I _{RRM}	2	A	
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	-	- 0.61	0.70 0.65	V	I _F = 20A, T _J = 25°C I _F = 20A,T _J = 125°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.

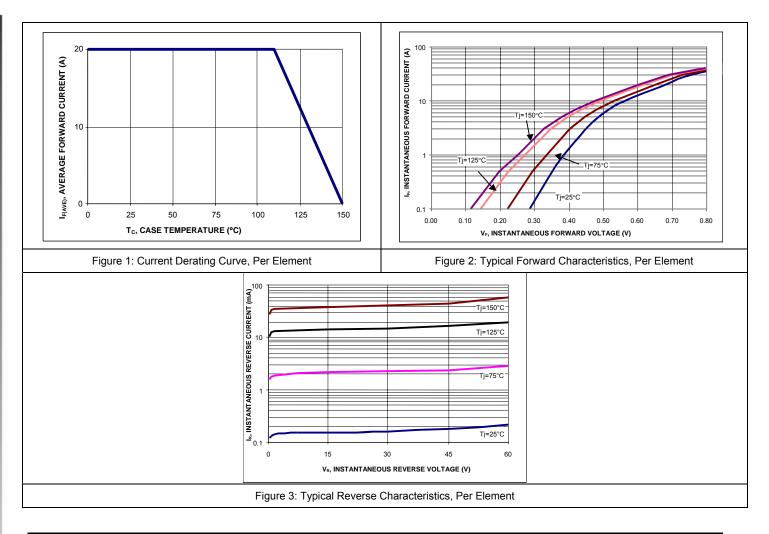
Short duration pulse test used to minimize self-heating effect.

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

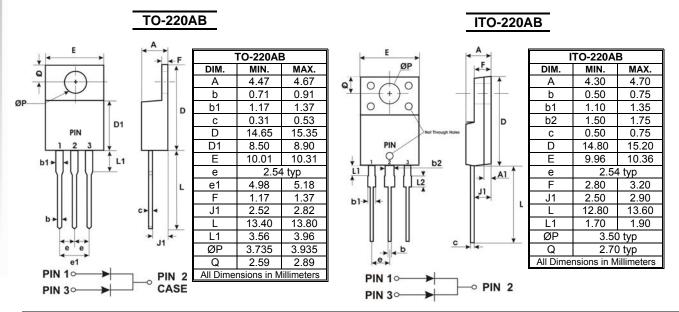
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Package Outline Drawings





Marking, Polarity, Weight & Ordering Information

	SBR4060CT	SBR4060CTFP
Case Style		
	TO-220AB	ITO-220AB
Polarity	Case	Anode Common 3 Anode Anode
Marking		SBR4060CTFP YWWW AB
Weight	2.1g	1.9g

Ordering	SBR4060CT	SBR4060CTFP	
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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