

SBR1060CT SBR1060CTFP

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}	60	V
DC Blocking Voltage	V _{RM}		
RMS Reverse Voltage	V _{R(RMS)}	42	V
Average Rectified Output Current @ T _c = 25°C	lo	10	А
Non-Repetitive Peak Forward Surge Current 8.3ms	1	120	А
Single Half Sine-Wave Superimposed on Rated Load	IFSM	120	~
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	-	-	0.68 0.57	V	I _F = 5A, T _J = 25°C I _F = 5A,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.

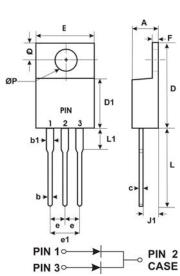
2. RoHS revision 13.2.2003. High temperature solder exemption applied, see EU Directive Annex Note 7.

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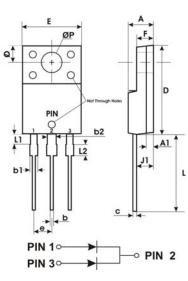


Package Outline Drawings

TO-220AB



TO-220AB		
DIM.	MIN.	MAX.
Α	4.47	4.67
b	0.71	0.91
b1	1.17	1.37
С	0.31	0.53
D	14.65	15.35
D1	8.50	8.90
E	10.01	10.31
е	2.54 typ	
e1	4.98	5.18
F	1.17	1.37
J1	2.52	2.82
L	13.40	13.80
L1	3.56	3.96
ØP	3.735	3.935
Q	2.59	2.89
All Dime	nsions in M	illimeters
	DIM. A b b1 C D D1 E e e e f J1 L L1 ØP Q	DIM. MIN. A 4.47 b 0.71 b1 1.17 c 0.31 D 14.65 D1 8.50 E 10.01 e 2.52 e1 4.98 F 1.17 J1 2.52 L 13.40 L1 3.56 ØP 3.735



ITO-220AB

ITO-220AB				
DIM.	MIN.	MAX.		
А	4.30	4.70		
b	0.50	0.75		
b1	1.10	1.35		
b2	1.50	1.75		
С	0.50	0.75		
D	14.80	15.20		
E	9.96	10.36		
е	2.54 typ			
F	2.80	3.20		
J1	2.50	2.90		
L	12.80	13.60		
L1	1.70	1.90		
ØР	3.50 typ			
Q	2.70 typ			
All Dimensions in Millimeters				

NEW PRODUCT



Marking, Polarity, Weight & Ordering Information

	SBR1060CT	SBR1060CTFP
Case Style		
	TO-220AB	ITO-220AB
Polarity	Case	Anode Common 3 Anode Anode Anode
Marking		SBR1060CTFP YYWW AB
Weight	2.1g	1.9g

Ordering	SBR1060CT	SBR1060CTFP
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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