

SBR60A60CT

60A SBR[®] SUPER BARRIER RECTIFIER

Features

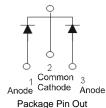
- Low Forward Voltage Drop
- Low Leakage Current
- Excellent High Temperature Stability
- Patented Super Barrier Rectifier Technology
- Soft, Fast Switching Capability
- 150°C Operating Junction Temperature
- Lead Free Finish, RoHS Compliant (Note 2)
- Also Available in Green Molding Compound (Note 4)



TO-220AB Top View

Mechanical Data

- Case: TO-220AB
- Case Material: Molded Plastic, UL Flammability Classification Rating 94V-0
- Marking Information: See Page 2
- Ordering Information: See Page 2
- Weight: 1.85 grams (approximate)



Package Pin Ou Configuration

Maximum Ratings (Per Leg) @T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.

Characteristic		Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _{RM}	60	V
Average Rectified Output Current	(Per Leg) (Total)	lo	30 60	А
Non-Repetitive Peak Forward Surge Current 8.3mS Single Half Sine-Wave Superimposed on rated load		I _{FSM}	280	A

TO-220AB

Bottom View

Thermal Characteristics (Per Leg)

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance, Junction to Case	R _θ JC	2	°C/W
Operating and Storage Temperature Range	TJ, T _{STG}	-65 to +150	°C

Electrical Characteristics (Per Leg) @T_A = 25°C unless otherwise specified

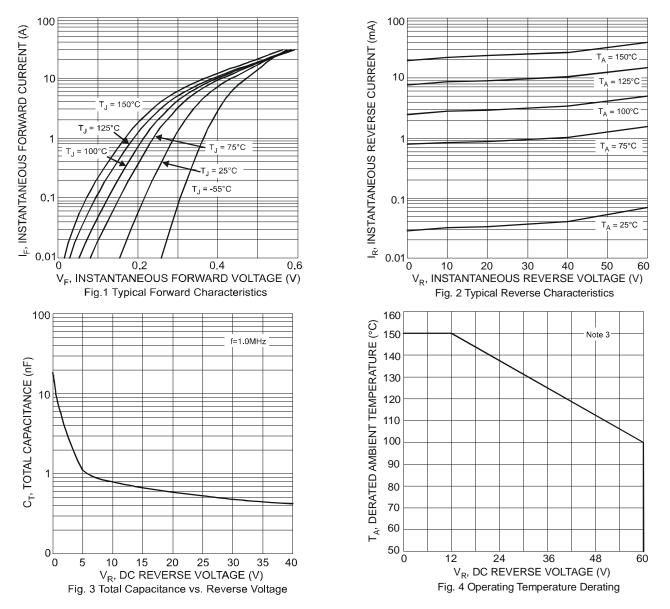
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	VF	-	0.50 0.61 0.46 -	0.53 0.65 0.49 0.64	V	$\begin{split} I_F &= 15A, \ T_J = 25^\circ C \\ I_F &= 30A, \ T_J = 25^\circ C \\ I_F &= 15A, \ T_J = 125^\circ C \\ I_F &= 30A, \ T_J = 125^\circ C \end{split}$
Leakage Current (Note 1)	I _R	-	0.07 15	0.2 100	mA	$V_R = 60V, T_J = 25^{\circ}C$ $V_R = 60V, T_J = 125^{\circ}C$

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

2. EU Directive 2002/95/EC (RoHS). All applicable RoHS exemptions applied. Please visit our website at http://www.diodes.com/products/lead_free.html.



SBR60A60CT



Ordering Information (Notes 3 & 4)

Part Number	Case	Packaging
SBR60A60CT	TO-220AB	50 pieces/tube
SBR60A60CT-G	TO-220AB	50 pieces/tube

Notes: 3. For packaging details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf. 4. For Green Molding Compound version part numbers, add "-G" suffix to part number above. Examples: SBR60A60CT-G.

Marking Information

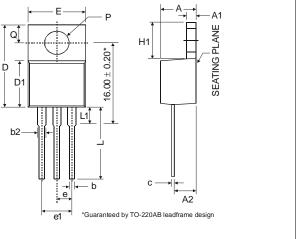


SBR60A60CT = Product Type Marking Code AB = Foundry and Assembly Code YYWW = Date Code Marking YY = Last two digits of year (ex: 07 = 2007) WW = Week (01-52)

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Package Outline Dimensions



TO-220AB				
Dim	Min	Тур	Max	
Α	3.56	1	4.82	
A1	0.51	-	1.39	
A2	2.04	1	2.92	
b	0.39	0.81	1.01	
b2	1.15	1.24	1.77	
c	0.356	-	0.61	
D	14.22	1	16.51	
D1	8.39	1	9.01	
е	2.54			
e1	5.08			
Е	9.66	-	10.66	
H1	5.85	-	6.85	
1	12.70	-	14.73	
L1	-	-	6.35	
Ρ	3.54	-	4.08	
Q	2.54	-	3.42	
All Dimensions in mm				

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