

SBR60A45CT

60A SBR® SUPER BARRIER RECTIFIER

Features

- Low Forward Voltage Drop ٠
- **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 5)

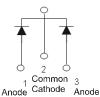


Top View

Bottom View

Mechanical Data

- Case: TO-220AB ٠
- Case Material: Molded Plastic, UL Flammability Classification Rating 94V-0
- Terminals: Matte Tin Finish annealed over Copper leadframe. Solderable per MIL-STD-202, Method 208 @3
- Marking Information: See Page 2
- Ordering Information: See Page 2
- Weight: 1.85 grams (approximate)



Package Pin Out Configuration

Maximum Ratings $@T_A = 25^{\circ}C$ unless otherwise specified

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

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}	45	V
DC Blocking Voltage	V _{RM}		
Average Rectified Output Current @ T _C = 150°C	lo	60	A
Non-Repetitive Peak Forward Surge Current 8.3mS	Irou	280	Δ
Single Half Sine-Wave Superimposed on rated load	IFSM	200	~

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance (Per Leg) Thermal Resistance Junction to Case	$R_{ ext{ heta}JC}$	2	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

Electrical Characteristics @T_A = 25°C unless otherwise specified

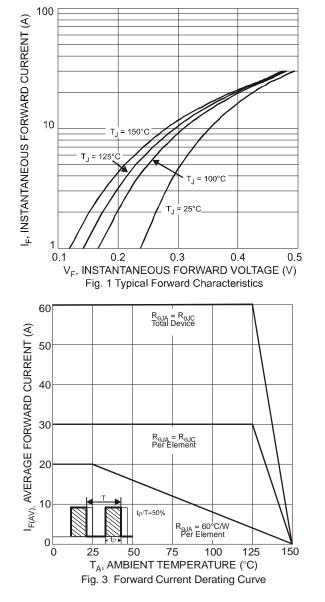
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop (per leg)	VF	-	0.50 0.49	0.55 0.53	V	I _F = 30A, T _J = 25°C I _F = 30A, T _J = 125°C
Leakage Current (Note 1)	I _R	-	0.25 20	1 200	mA	V _R = 45V, T _J = 25°C V _R = 45V, T _J = 125°C

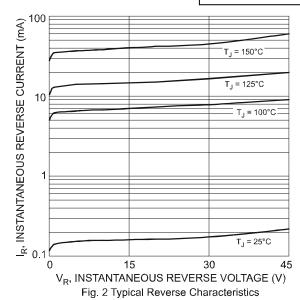
Notes:

Short duration pulse test used to minimize self-heating effect.
EU Directive 2002/95/EC (RoHS). All applicable RoHS exemptions applied, see EU Directive 2002/95/EC Annex Notes.



SBR60A45CT





Ordering Information (Notes 3 & 4)

Part Number	Case	Packaging
SBR60A45CT	TO-220AB	50 pieces/tube
SBR60A45CT-G	TO-220AB	50 pieces/tube

Notes:

For packaging details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.
For Green Molding Compound version part numbers, add "-G" suffix to part number above. Examples: SBR60A45CT-G.

Marking Information



SBR60A45CT = 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)

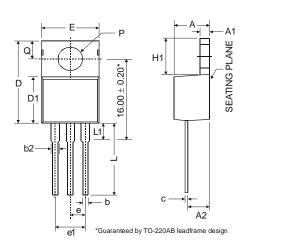
SBR is a registered trademark of Diodes Incorporated. SBR60A45CT Document number: DS31320 Rev. 3 - 2

2 of 3

Downloaded From Oneyac.com



Package Outline Dimensions



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

IMPORTANT NOTICE

Diodes Incorporated and its subsidiaries reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein. Diodes Incorporated does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Diodes Incorporated and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

Diodes Incorporated products are not authorized for use as critical components in life support devices or systems without the expressed written approval of the President of Diodes Incorporated.

单击下面可查看定价,库存,交付和生命周期等信息

>>Diodes Incorporated(达迩科技(美台))