



30A SBR[®] SUPER BARRIER RECTIFIER

Features

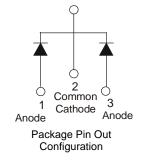
- Low Forward Voltage Drop
- Low Leakage Current
- Excellent High Temperature Stability
- Patented Super Barrier Rectifier Technology
- Soft, Fast Switching Capability
- 150°C Operating Junction Temperature
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)

Mechanical Data

- Case: TO263 (D²Pak)
- 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 63
- Weight: 1.6 grams (approximate)



TO263



Ordering Information (Note 3)

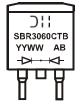
Part Number	Case	Packaging
SBR3060CTB	TO263	50 pieces/tube
SBR3060CTB-13	TO263	800/Tape & Reel

1. EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant. All applicable RoHS exemptions applied.

See http://www.diodes.com for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
 For packaging details, go to our website at http://www.diodes.com.

Marking Information

Notes:



SBR3060CTB = Product Type Marking Code AB = Foundry and Assembly Code YYWW = Date Code Marking YY = Last two digits of year (ex: 09 = 2009) WW = Week (01 - 53)



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

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

For capaci	tance load	d. derate current by 20%.	

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)	Ι _Ο	15 30	А
Non-Repetitive Peak Forward Surge Curr Single Half Sine-Wave Superimposed on		I _{FSM}	200	A

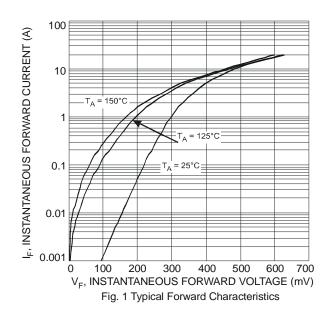
Thermal Characteristics (Per Leg)

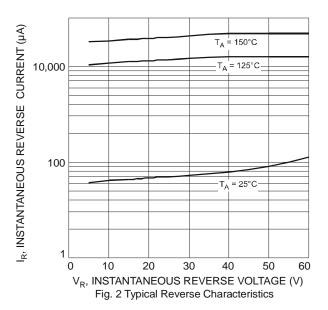
Characteristic	Symbol	Value	Unit
Maximum Thermal Resistance Junction to Case	R _{θJC}	2	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C

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

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop (per leg)	V _F	-	0.56 -	0.62 0.60		I _F = 15A, T _J = 25⁰C I _F = 15A, T _J = 125⁰C
Leakage Current (Note 4)	I _R	-	0.125 -	0.5 45	mA	V _R = 60V, T _J = 25°C V _R = 60V, T _J = 125°C

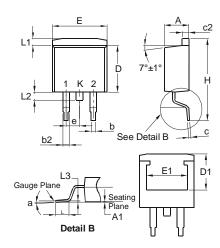
Notes: 4. Short duration pulse test used to minimize self-heating effect.





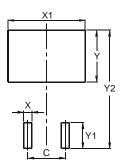


Package Outline Dimensions



TO263			
Dim	Min	Max	
Α	4.07	4.82	
A1	0.00	0.25	
b	0.51	0.99	
b2	1.15	1.77	
c	0.356	0.73	
c2	1.143	1.65	
D	8.39	9.65	
D1	6.55	_	
E	9.66	10.66	
E1	6.23	_	
е	2.54	Тур	
Н	14.61	15.87	
L	1.78	2.79	
L1	_	1.67	
L2	_	1.77	
а	0°	8°	
All Dimensions in mm			

Suggested Pad Layout



Dimensions	Value (in mm)
С	5.08
Х	1.10
X1	10.41
Y	3.50
Y1	7.01
Y2	15.99



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