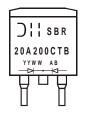


Marking Information



SBR20A200CTB = Product Type Marking Code AB = Foundry and Assembly Code YYWW = Date Code Marking YY = Last Two Digits of Year (ex: 15 = 2015) WW = Week (01 - 53)

Maximum Ratings (@ $T_A = +25$ °C, unless otherwise specified.)

Single phase, half wave, 60Hz, resistive or inductive load. For capacitance load, 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}	200	V
Average Rectified Output Current @ T _C = +150°C	lo	20	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	180	А

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Typical Thermal Resistance (Per Leg)			
Thermal Resistance Junction to Case (Note 5)	$R_{\theta JC}$	3	°C/W
Thermal Resistance, Junction to Ambient (Note 5)	$R_{\theta JA}$	15	
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +175	°C

Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

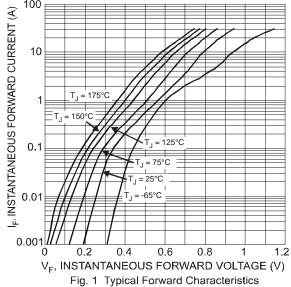
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	V _F	_	— — 0.66	0.86 0.96 0.72	V	I _F = 10A, T _J = +25°C I _F = 20A, T _J = +25°C I _F = 10A, T _J = +125°C
Leakage Current (Note 6)	I _R	_	0.003 0.51	0.1 10	mA	V _R = 200V, T _J = +25°C V _R = 200V, T _J = +125°C
		_	24	30		$I_F = 0.5A$, $I_R = 1A$, $I_{RR} = 0.25A$
Reverse Recovery Time	t _{rr}	_	20	25	nS	$I_F = 1A$, $V_R = 30V$, di/dt = 100A/ μ s, $T_J = +25$ °C

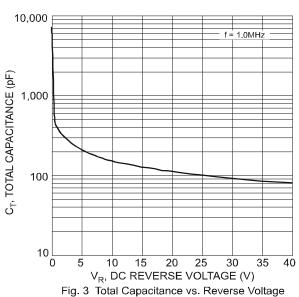
Notes:

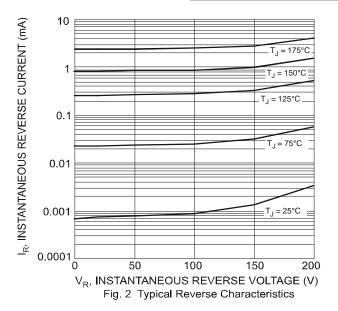
^{5.} Device mounted on 2-inch square. Al board, minimum recommended pad layout as shown on Diodes Inc. suggested pad layout document AP02001, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf. 6. Short duration pulse test used to minimize self-heating effect.

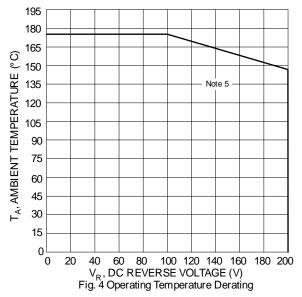










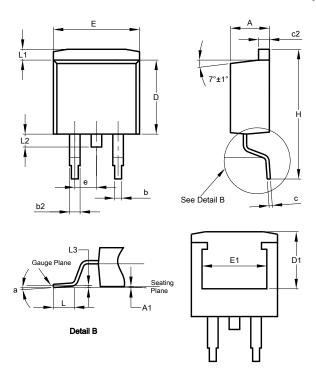




Package Outline Dimensions

Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for the latest version.

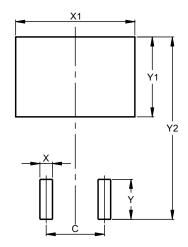
TO263AB (D2PAK)



TO263AB (D2PAK)			
Dim	Min	Max	Тур
Α	4.07	4.82	-
A1	0.00	0.25	-
b	0.51	0.99	-
b2	1.15	1.77	-
С	0.356	0.73	-
c2	1.143	1.65	-
D	8.39	9.65	-
D1	6.55	6.95	-
е	2.54 TYP		
Е	9.66	10.66	-
E1	6.23	8.23	-
Н	14.61	15.87	-
L	1.78	2.79	-
L1	-	1.67	-
L2	-	1.77	-
L3	-	-	0.254
а	0°	8°	-
All Dimensions in mm			

Suggested Pad Layout

Please see AP02001 at http://www.diodes.com/datasheets/ap02001.pdf for the latest version.



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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