imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





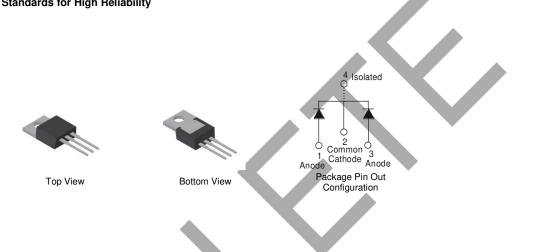
20A SBR[®] SUPER BARRIER RECTIFIER

Features

- Low Forward Voltage Drop
- Soft, Fast Switching Capability
- Schottky Barrier Chip
- ITO-220S Heat Sink Tab Electrically Isolated from Cathode
- UL Approval in Accordance with UL 1557, Reference No. E94661
- Qualified to AEC-Q101 Standards for High Reliability

Mechanical Data

- Case: ITO-220S
- 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 🗐
- Weight: 1.35 grams (approximate)

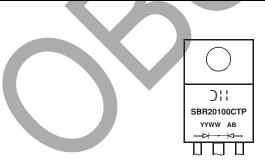


Ordering Information (Note 1)

Part Number	Case	Packaging
SBR20100CTP	ITO-220S	50 pieces/tube

Notes: 1. For packaging details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information



SBR20100CTP = Product Type Marking Code AB = Foundry and Assembly Code YYWW = Date Code Marking YY = Last two digits of year (ex: 08 = 2008) WW = Week (01 - 53)



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

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

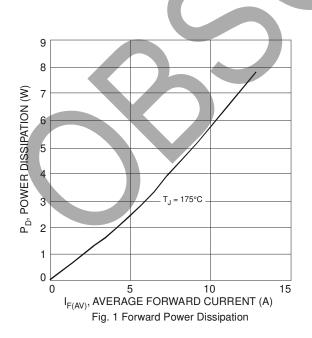
Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} Vrwm Vrm	100	V
Average Rectified Output Current per Device (Per Leg) (Total)	I _O	10 20	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	150	A
Isolation Voltage From terminal to heatsink t = 1 min.	V _{AC}	4000	V

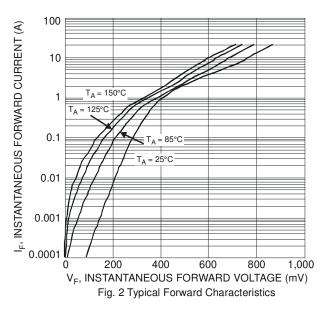
Thermal Characteristics (Per Leg)CharacteristicSymbolValueUnitTypical Thermal ResistanceR_{0JC}3°C/WOperating and Storage Temperature RangeTJ, TSTG-65 to +175°C

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

	<u> </u>					T 10 IV
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Forward Voltage Drop	VF		-	0.82	V	I _F = 10A, T _J = 25ºC
	VF			0.75		I _F = 10A, T _J = 125⁰C
Leakage Current (Note 2)	-	-	100	μA	V _R = 100V, T _J = 25⁰C	
	-	-	10	mA	V _R = 100V, T _J = 125⁰C	

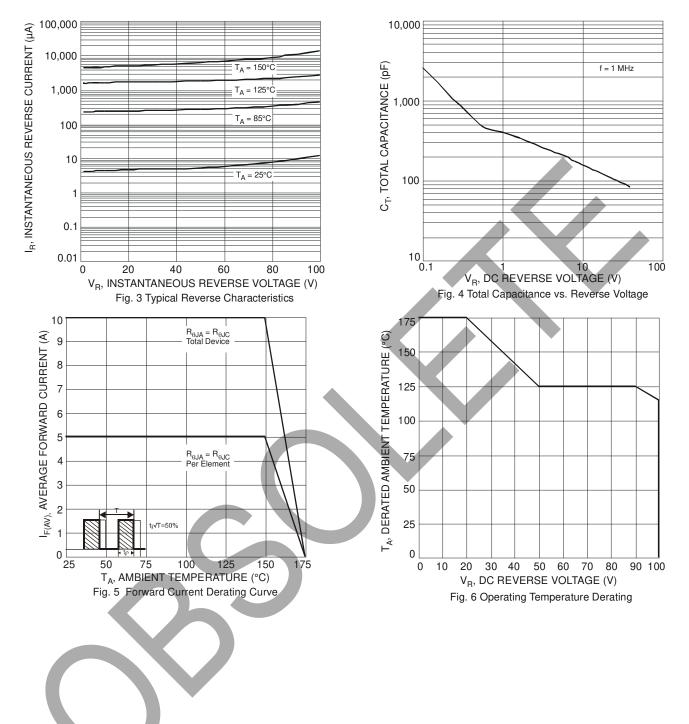
Note: 2. Short duration pulse test used to minimize self-heating effect.





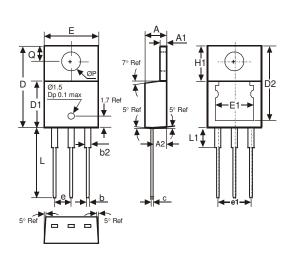


SBR20100CTP





Package Outline Dimensions



DIM. MIN. MAX. TYP.					
A 4.52 4.62 4.57					
A1 1.17 1.39 –					
A2 2.57 2.77 2.67					
b 0.72 0.95 0.84					
b2 1.15 1.34 1.26					
c 0.356 0.61 –					
D 14.22 16.51 15.00					
D1 8.60 8.80 8.70					
D2 13.68 14.08 -					
e 2.49 2.59 2.54					
e1 4.98 5.18 5.08					
E 10.01 10.21 10.11					
E1 6.86 8.89 –					
H1 5.85 6.85 –					
L 13.30 13.90 13.60					
L1 – 4.00 –					
P 3.54 4.08 –					
Q 2.54 3.42 –					
All Dimensions in mm					



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