



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

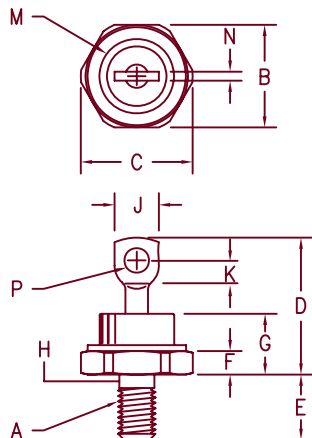
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80 Amps Schottky Rectifier SBR8210, SBR8215



- Notes:
1. Full threads within 2 1/2 threads
 2. Standard Polarity: Stud is Cathode
Reverse Polarity: Stud is Anode

Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	---	---	---	---	1/4-28
B	.669	.688	17.00	17.47	
C	---	.794	---	20.16	
D	.750	1.00	19.05	25.40	
E	.422	.453	10.72	11.50	
F	.115	.200	2.93	5.08	
G	---	.450	---	11.43	
H	.220	.249	5.59	6.32	1
J	---	.375	---	9.52	
K	.156	---	3.97	---	
M	---	.510	---	12.95	Dia
N	---	.080	---	2.03	
P	.140	.175	3.56	4.44	Dia

DO-203AB (DO-5)

Microsemi Catalog Number	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage	
SBR8210*		10V	10V	
SBR8215*	95HQ015	15V	15V	

*Add Suffix R For Reverse Polarity

- Schottky Barrier Rectifier
- Low Forward Voltage
- Guard Ring Protection
- 150°C Junction Temperature
- VRRM - 10 to 15 Volts

Electrical Characteristics

Average forward current,	$I_F(AV) = 80$ Amps	$T_C = 103^\circ\text{C}$, Square wave, $R_{\theta JC} = 1.0^\circ\text{C/W}$
Maximum surge current,	$I_{FSM} = 1200$ Amps	8.3 ms, half sine $T_J = 150^\circ\text{C}$
Max repetitive peak reverse current	$I_R(OV) = 2$ Amps	$f = 1$ KHz, 25°C , 1 μsec Square wave
Max peak forward voltage,	$V_{FM} = .38$ Volts	$I_{FM} = 80\text{A}$, $T_J = 150^\circ\text{C}^*$
Max peak forward voltage,	$V_{FM} = .50$ Volts	$I_{FM} = 80\text{A}$, $T_J = 25^\circ\text{C}^*$
Max peak reverse current	$I_{RM} = 1.5$ A	V_{RRM} , $T_J = 125^\circ\text{C}^*$
Max peak reverse current	$I_{RM} = 5.0$ mA	V_{RRM} , $T_J = 25^\circ\text{C}$
Typical junction capacitance	$C_J = 4600$ pF	$V_R = 5.0\text{V}$, $T_J = 25^\circ\text{C}$

*Pulse test: Pulse width 300 μsec , Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temp range	T_{STG}	-65°C to $+175^\circ\text{C}$
Operating junction temp range	T_J	-65°C to $+150^\circ\text{C}$
Max thermal resistance	$R_{\theta JC}$	1.0°C/W Junction to case
Typical thermal resistance (greased)	$R_{\theta CS}$	0.5°C/W Case to sink
Mounting torque		25-30 inch pounds
Weight		.54 ounce (15.3 grams) typical



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SBR8210, SBR8215

Figure 1
Typical Forward Characteristics

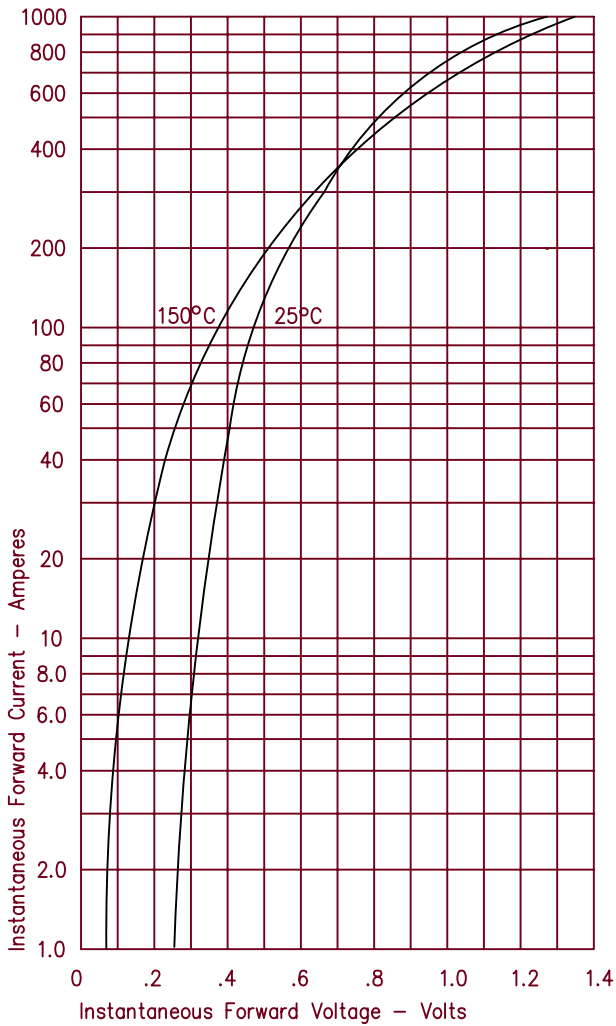


Figure 3
Typical Junction Capacitance

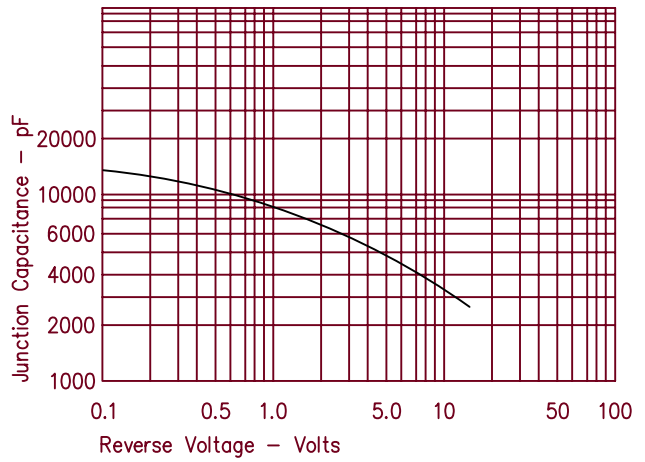


Figure 4
Forward Current Derating

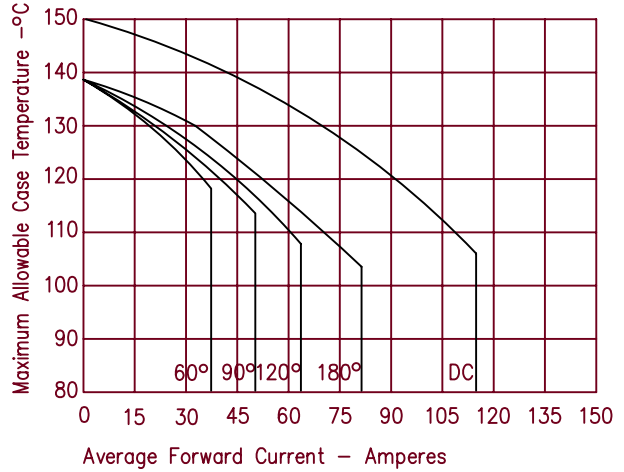


Figure 2
Typical Reverse Characteristics

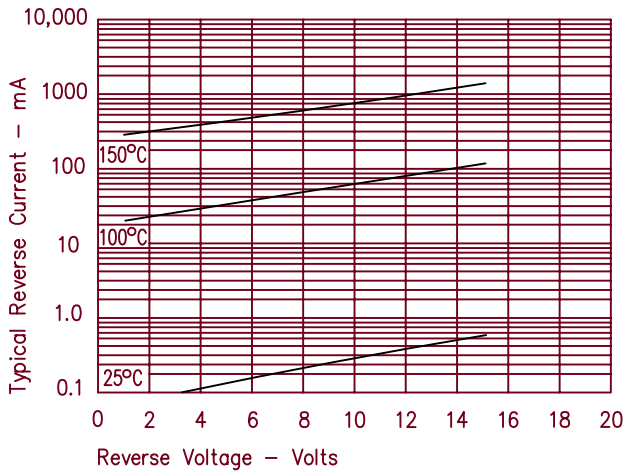


Figure 5
Maximum Forward Power Dissipation

