



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

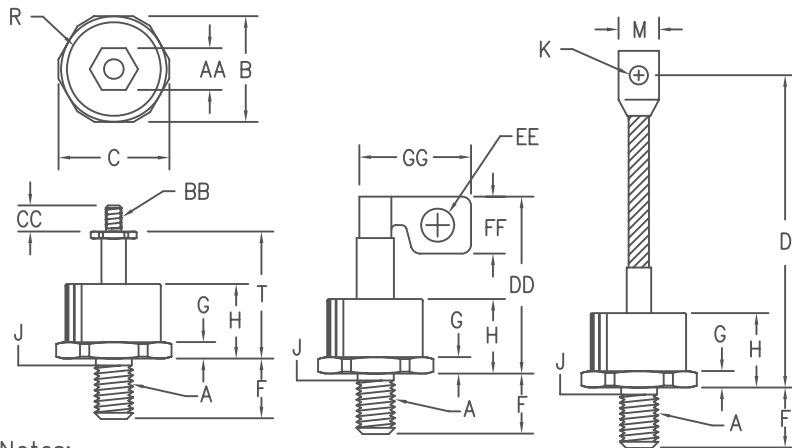
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Silicon Power Rectifier S/R43 Series



Notes:

1. 3/8-24 UNF-3A
2. Full threads within 2 1/2 threads
3. Accepts 1/4-28 UNF-2B Nut
4. Reverse polarity: Stud is Anode

Microsemi Catalog Number	JEDEC Numbers			Peak Reverse Voltage
	1N2436			50V
*S4310	1N2437	1N3288A	1N4587	100V
	1N2438			150V
*S4320	1N2439	1N3289A	1N4588	200V
	1N2440			250V
*S4330	1N2441	1N3290A	1N4589	300V
	1N2442			350V
*S4340	1N2443	1N3291A	1N4590	400V
*S4350	1N2444	1N3292A	1N4591	500V
*S4360	1N2445	1N3293A	1N4592	600V
*S4380		1N3294A	1N4593	800V
*S43100		1N3295A	1N4594	1000V
*S43120		1N3296A	1N4595	1200V
*S43140		1N3297A	1N4596	1400V
*S43160				1600V

*For Reverse Polarity, change S to R
For 1N types, add R suffix for Reverse Polarity
Add the suffix TS to the part number if Top Stud; F for Flag

Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	---	---	---	---	1
B	1.040	1.060	26.67	26.92	
C	---	1.166	---	29.61	
D	4.30	4.70	109.22	119.38	
F	.610	.640	15.49	16.25	
G	.213	.233	5.41	5.66	
H	---	.745	---	18.92	
J	.344	.373	8.74	9.47	2
K	.276	.286	7.01	7.26	
M	.465	.670	11.81	17.78	
R	---	.850	---	21.59	Dia
T	1.426	---	36.22	---	
AA	.422	.453	10.84	11.09	
BB	---	---	---	---	3
CC	.407	---	10.33	---	
DD	---	1.75	---	44.45	
EE	.215	.225	5.46	5.72	Dia
FF	.360	.390	9.14	9.91	
GG	.740	.750	18.80	19.05	

D0205AA (D08)

- Soft recovery
- Glass Passivated Die
- 2500 Amps Surge Rating
- Glass to metal seal construction
- VRRM to 1600V

Electrical Characteristics

Average forward current	IF(AV) 150 Amps	TC = 148°C, Half Sine Wave, RθJC = 0.35°C/W
Maximum surge current	IFSM 2500 Amps	8.3ms, half sine, TJ = 200°C
Max I ² t for fusing	I ² t 26000 A ² s	
Max peak forward voltage	VFM 1.1 Volts	IFM = 200A; TJ = 25°C*
Max peak reverse current	IRM 50 μA	VRRM, TJ = 25°C
Max peak reverse current	IRM 5.0 mA	VRRM, TJ = 150°C
Max Recommended Operating Frequency	7.5kHz	

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

Thermal and Mechanical Characteristics

Storage temperature range	TSTG	-65°C to 200°C
Operating junction temp range	TJ	-65°C to 200°C
Maximum thermal resistance	RθJC	0.35°C/W Junction to Case
Mounting torque		80-100 inch pounds
Weight		2.75 ounces (78 grams) typical

S/R43

Figure 1
Typical Forward Characteristics

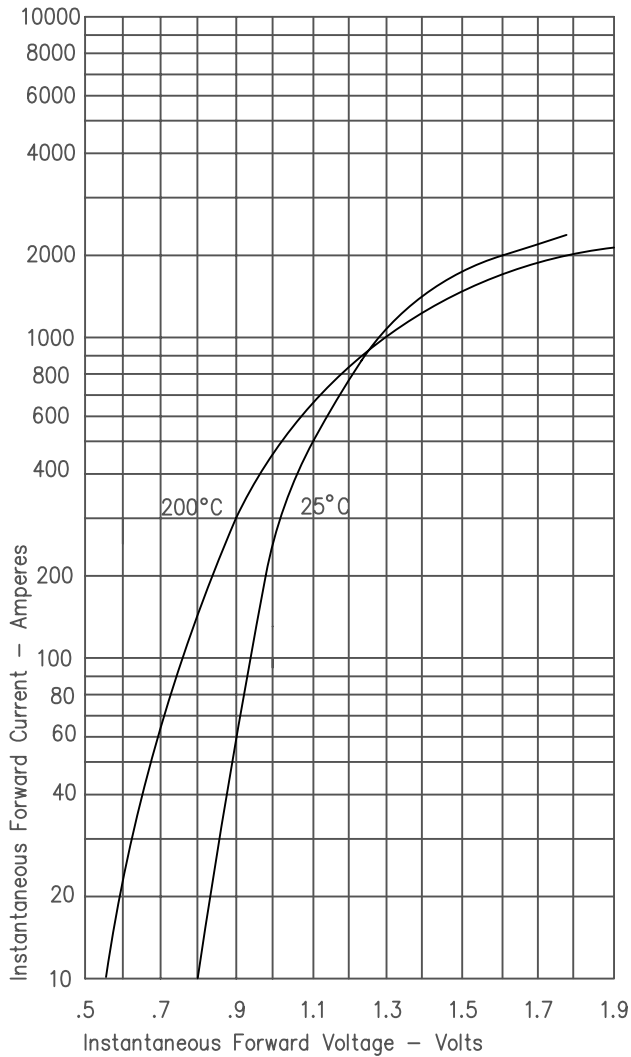


Figure 2
Typical Reverse Characteristics

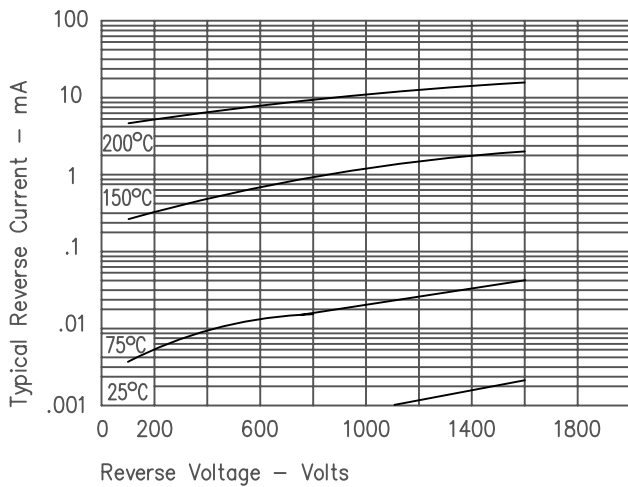


Figure 3
Forward Current Derating

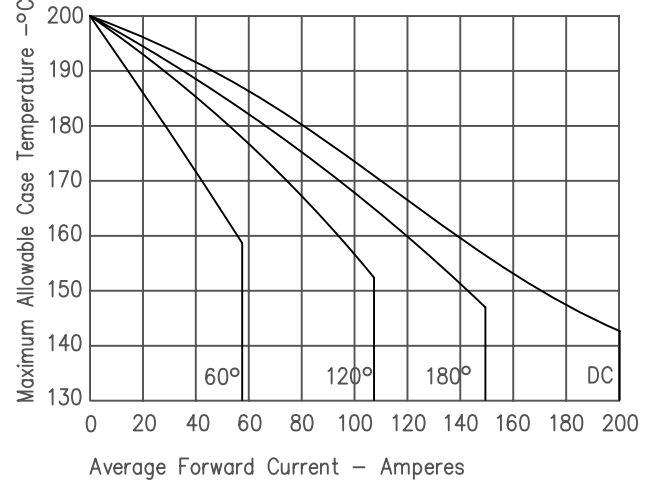


Figure 4
Maximum Forward Power Dissipation

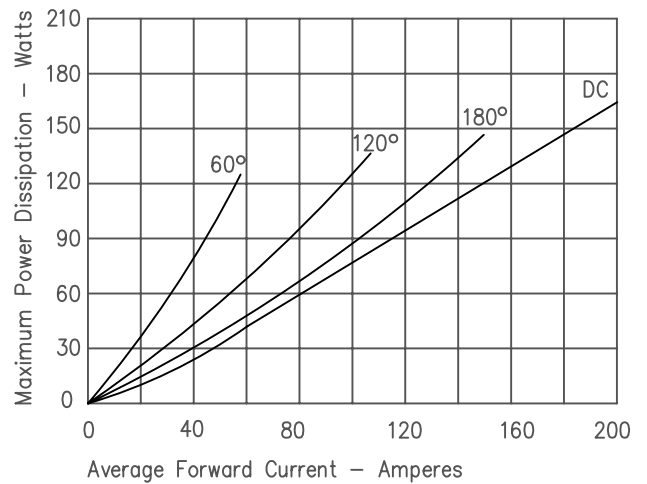


Figure 5
Transient Thermal Impedance

