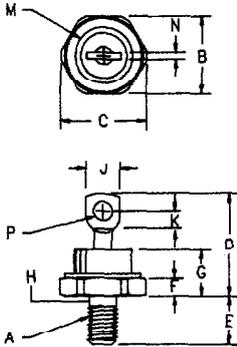


Silicon Power Rectifier S/R36 Series



Notes:

1. 1/4-28
2. Full threads within 2 1/2 threads
3. Standard polarity:
Stud is cathode
Reverse polarity:
Stud is anode

Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	---	---	---	---	1
B	.667	.687	16.95	17.44	
C	---	.793	---	20.14	
D	---	1.00	---	25.40	
E	.422	.453	10.72	11.50	
F	.115	.200	2.95	5.08	
G	---	.450	---	11.43	
H	.220	.249	5.59	6.32	2
J	.250	.375	6.35	9.52	
K	.156	---	3.97	---	
M	---	.667	---	16.94	Dia
N	---	.080	---	2.03	
P	.140	.175	3.56	4.44	Dia

D0203AB (D05)



Microsemi Catalog Number	Standard Reverse	Peak Reverse Voltage
S3610	R3610	100V
S3620	R3620	200V
S3640	R3640	400V
S3660	R3660	600V
S3680	R3680	800V
S36100	R36100	1000V
S36120	R36120	1200V

- Low thermal resistance
- Glass Passivated Die
- 1200 Amps Surge Rating
- Glass to metal construction
- VRRM to 1200V
- Excellent reliability

Electrical Characteristics		
Average forward current	IF(AV) 70 Amps	Tc = 151°C, Half Sine Wave, RθJC = 0.65°C/W
Maximum surge current	IFSM 1200 Amps	8.3ms, half sine, Tj = 200°C
Max I ² t for fusing	I ² t 6000 A ² s	
Max peak forward voltage	VFM 1.25 Volts	IFM = 200A; Tj = 25°C*
Max peak reverse current	IRM 50 μA	VRRM, Tj = 25°C
Max peak reverse current	IRM 2.0 mA	VRRM, Tj = 150°C*
Max Recommended Operating Frequency	10kHz	
*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	0.65°C/W Junction to Case
Typical thermal resistance	RθJC	0.6°C/W Junction to Case
Mounting torque		30 inch pounds maximum
Weight		.6 ounces (17 grams) typical

Microsemi Corp.
Colorado

PH: 303-469-2161
FAX: 303-466-3775

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S/R36

Figure 1
Typical Forward Characteristics

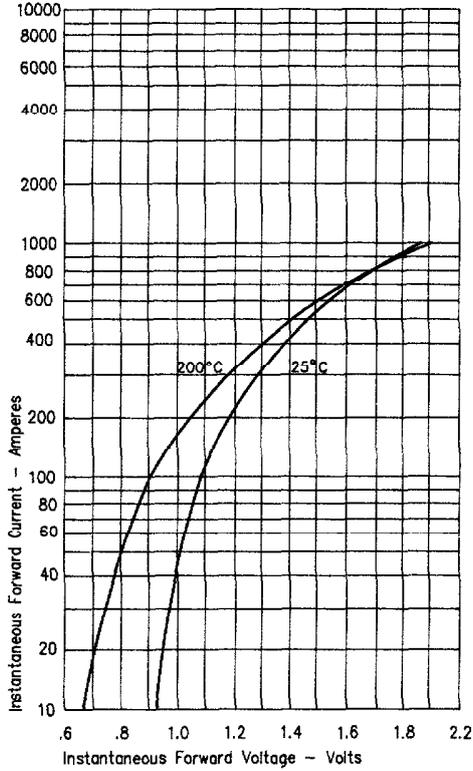


Figure 3
Forward Current Derating

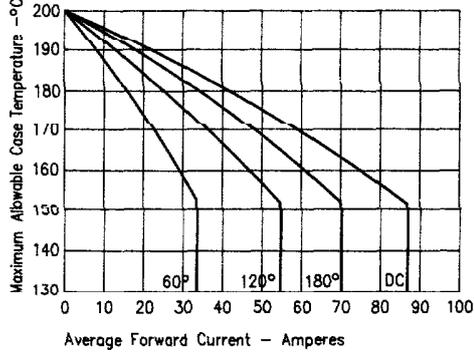


Figure 4
Maximum Forward Power Dissipation

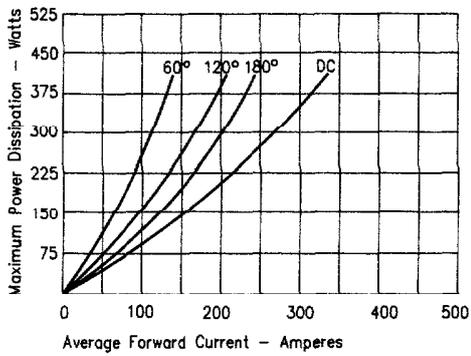


Figure 2
Typical Reverse Characteristics

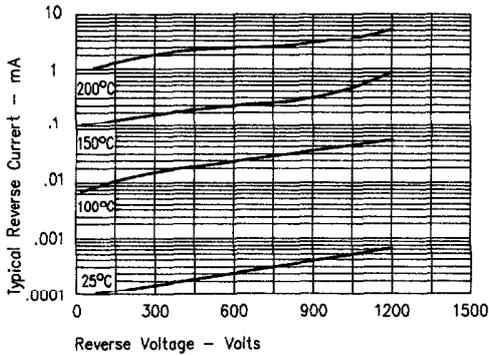
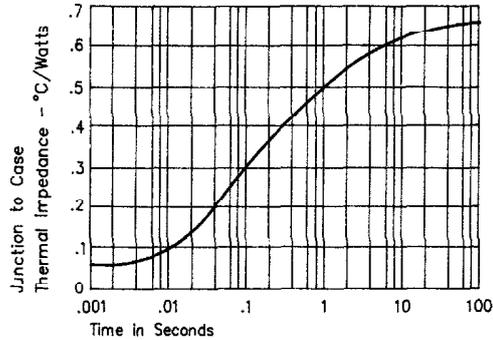
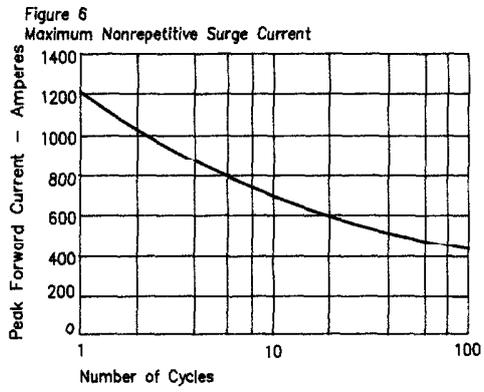


Figure 5
Transient Thermal Impedance



S/R36



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