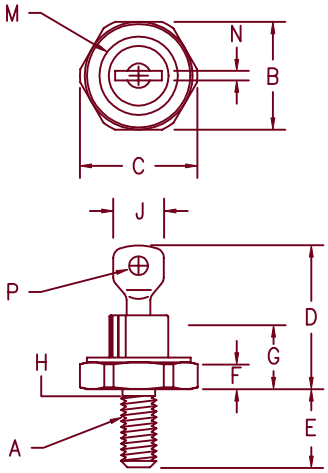
Silicon Power Rectifier
S/R25 Series



Notes:
1. 10–32 UNF3A
2. Full threads within 2 1/2 threads
3. Standard Polarity: Stud is Cathode
   Reverse Polarity: Stud is Anode

Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A	---	---	---	---	1
B	.424	.437	10.77	11.10	
C	---	.505	---	12.82	
D	.600	.800	15.24	20.32	
E	.422	.453	10.72	11.50	
F	.075	.175	1.91	4.44	
G	---	.405	---	10.29	
H	.163	.189	4.15	4.80	2
J	---	.310	---	7.87	
M	---	.350	---	8.89	Dia
N	.020	.065	.510	1.65	
P	.070	.100	1.78	2.54	Dia

Microsemi Catalog Number			Peak Reverse Voltage
	1N1199C	1N3615	50V
	1N1200C	1N3616	100V
	1N1201C	1N3617	150V
*S2520	1N1202C	1N3618	200V
	1N1203C	1N3619	300V
*S2540	1N1204C	1N3620	400V
	1N1205C	1N3621	500V
*S2560	1N1206C	1N3622	600V
*S2580		1N3623	800V
*S25100		1N3624	1000V
*S25120			1200V
*S25140			1400V
*S25160			1600V

*Change S to R in part number for Reverse Polarity
For 1N types, add R suffix for Reverse Polarity

DO203AA (DO4)

- Glass Passivated Die
- Low Forward Voltage
- 400A Surge Rating
- Glass to metal seal construction
- V_{RRM} to 1600V
- Excellent reliability

Electrical Characteristics

Average forward current	$I_{F(AV)}$ 25 Amps	T_C = 135°C, half sine wave, $R_{\theta JC}$ = 2.0°C/W
Maximum surge current	I_{FSM} 400 Amps	8.3ms, half sine, T_J = 200°C
Max I^2t for fusing	I^2t 660 A^2s	
Max peak forward voltage	V_{FM} 1.1 Volts	I_{FM} = 30A; T_J = 25°C *
Max peak reverse current	I_{RM} 10 µA	V_{RRM}, T_J = 25°C
Max peak reverse current	I_{RM} 1.0 mA	V_{RRM}, T_J = 150°C
Max Recommended Operating Frequency	10kHz	

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

Thermal and Mechanical Characteristics

Storage temperature range	T_{STG}	–65°C to 200°C
Operating junction temp range	T_J	–65°C to 200°C
Maximum thermal resistance	$R_{\theta JC}$	2.0°C/W Junction to Case
Mounting torque		25–30 inch pounds
Weight		.16 ounces (5.0 grams) typical

8–20–03 Rev. 3

COLORADO Microsemi
800 Hoyt Street
Broomfield, CO. 80020
PH: (303) 469–2161
FAX: (303) 466–3775
www.microsemi.com

S/R25

Figure 1
Maximum Forward Characteristics

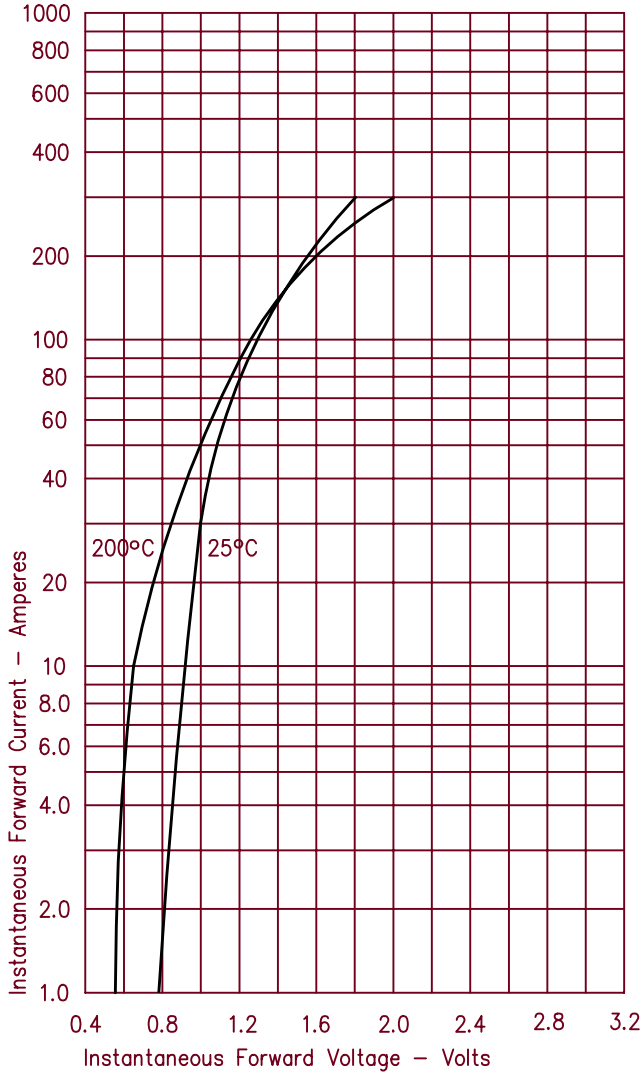


Figure 2
Typical Reverse Characteristics

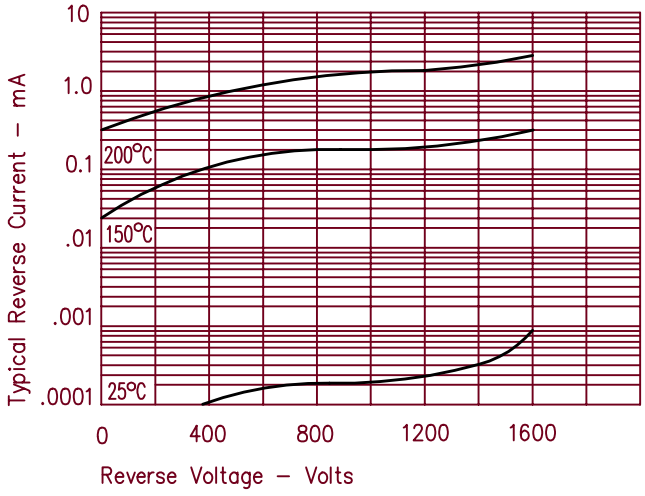


Figure 3
Forward Current Derating

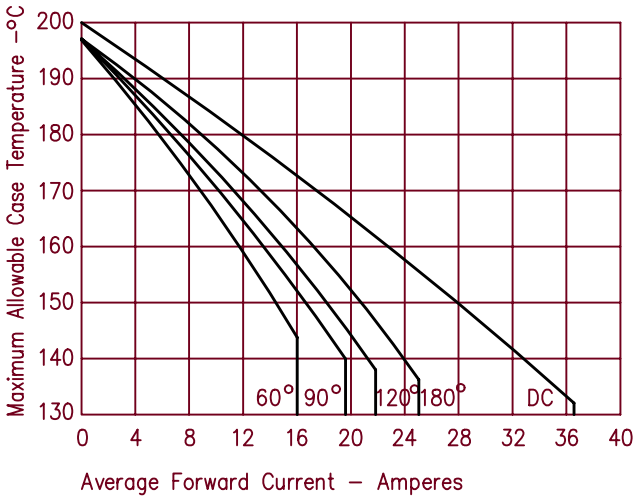


Figure 4
Maximum Forward Power Dissipation

