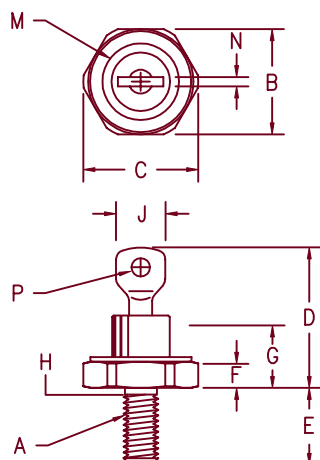


Silicon Power Rectifier S/R25 Series



Notes:

- 10-32 UNF3A
- Full threads within 2 1/2 threads
- Standard Polarity: Stud is Cathode
Reverse Polarity: Stud is Anode

Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
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

1N1199C
1N1200C
1N1201C
*S2520 1N1202C
*S2540 1N1203C
1N1204C
1N1205C
1N1206C
*S2560
*S2580
*S25100
*S25120
*S25140
*S25160

Peak Reverse Voltage

1N3615 50V
1N3616 100V
1N3617 150V
1N3618 200V
1N3619 300V
1N3620 400V
1N3621 500V
1N3622 600V
1N3623 800V
1N3624 1000V
1200V
1400V
1600V

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

D0203AA (D04)

- 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	$T_C = 134^\circ C$, half sine wave, $R_{\theta JC} = 2.0^\circ C/W$
Maximum surge current	I_{FSM} 400 Amps	8.3ms, half sine, $T_J = 200^\circ C$
Max $I^2 t$ for fusing	$I^2 t$ 660 A ² s	
Max peak forward voltage	V_{FM} 1.1 Volts	$I_{FM} = 30A$; $T_J = 25^\circ C$ *
Max peak reverse current	I_{RM} 10 μA	V_{RRM} , $T_J = 25^\circ C$
Max peak reverse current	I_{RM} 1.0 mA	V_{RRM} , $T_J = 150^\circ C$
Max Recommended Operating Frequency	10kHz	

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

Thermal and Mechanical Characteristics

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

11-15-00 Rev. 2

S/R25

Figure 1
Maximum Forward Characteristics

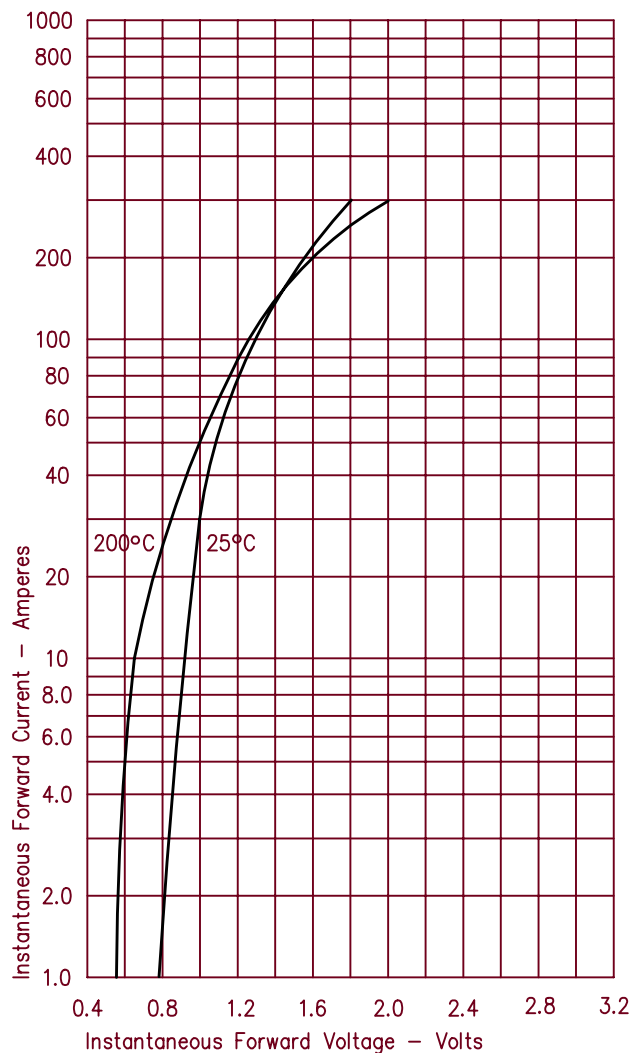


Figure 3
Forward Current Derating

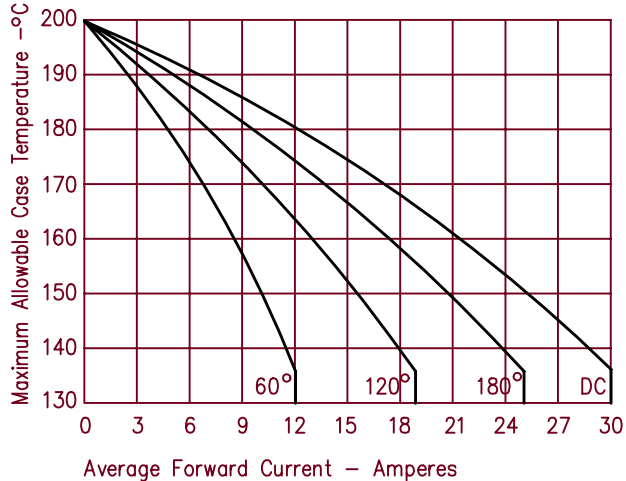


Figure 4
Transient Thermal Impedance

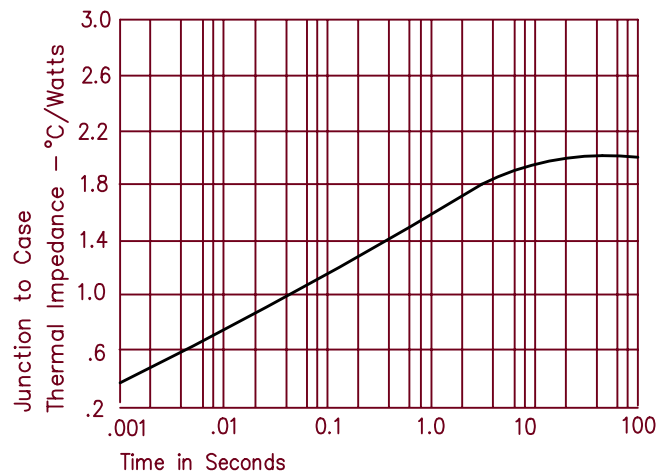
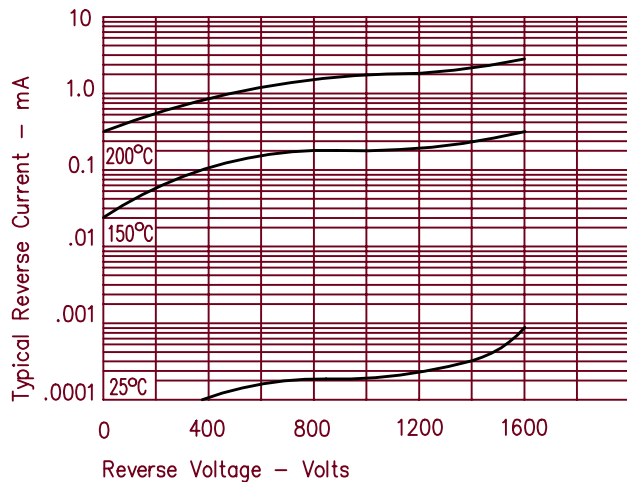


Figure 2
Typical Reverse Characteristics



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