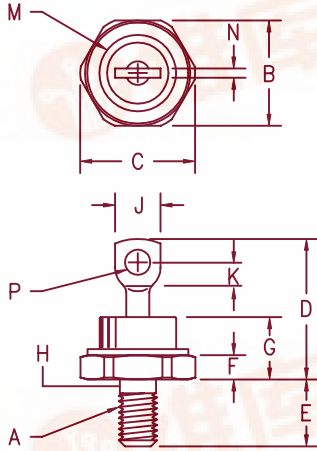


Fast Recovery Rectifier

查询"1N3910AR"供应商

1N3909A — 1N3913A



- Notes:
1. 1/4-28 UNF3A threads
 2. Full threads within 2 1/2 threads
 3. Standard Polarity: Stud is Cathode

Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	---	---	---	---	
B	.669	.688	16.99	17.48	1
C	---	.794	---	20.16	
D	.750	1.000	19.05	25.40	
E	.422	.453	10.72	11.51	
F	.115	.200	2.92	5.08	
G	---	.450	---	11.43	
H	.220	.249	5.58	6.32	2
J	.250	.375	6.35	9.53	
K	.156	---	3.96	---	
M	---	.667	---	16.94	Dia.
N	.030	.080	.760	2.03	
P	.140	.175	3.56	4.45	Dia.

D0203AB (D05)

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
1N3909A*	50V	50V
1N3910A*	100V	100V
1N3911A*	200V	200V
1N3912A*	300V	300V
1N3913A*	400V	400V

*Add the Suffix R for reverse polarity

- Fast Recovery Rectifier
- 150°C Junction Temperature
- 50 Amp current rating
- VRRM 50 to 400 Volts

Electrical Characteristics

Average forward current	$I_F(AV)$ 50 Amps	$T_C = 100^\circ C$, Square wave, $R_{\theta JC} = 0.8^\circ C/W$ 8.3 ms, half sine $T_C = 100^\circ C$
Maximum surge current	I_{FSM} 400 Amps	
Max peak forward voltage	V_{FM} 1.40 Volts	$I_{FM} = 50A$ $T_J = 25^\circ C^*$
Max peak reverse current	I_{RM} 6 mA	V_{RRM} , $T_J = 150^\circ C$
Max peak reverse voltage	V_{RM} 15 μA	V_{RRM} , $T_J = 25^\circ C$
Max reverse recovery time	t_{RR} 150 ns	$I_F = 1A$ dc, $V_R = 30V$, $di/dt = 25A/\mu s$
Typical junction capacitance	C_J 130 pF	$V_R = 10V$, $f = 1Mhz$, $T_J = 25^\circ C$

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

Thermal and Mechanical Characteristics

Storage temp range	TSTG	-65°C to 175°C
Operating junction temp range	T_J	-65°C to 150°C
Max thermal resistance	$R_{\theta JC}$	0.8°C/W Junction to case
Mounting torque		25-30 inch pounds
Weight		.54 ounces (15.3 grams) typical



COLORADO

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10-26-00 Rev. IR

1N3909A — 1N3913A

Figure 1
Typical Forward Characteristics

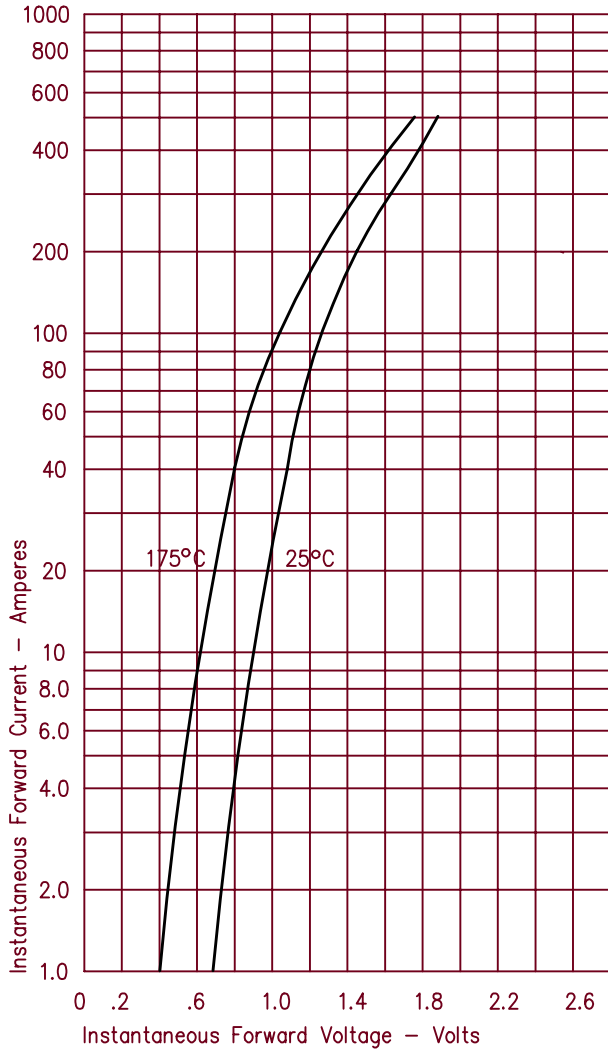


Figure 3
Typical Junction Capacitance

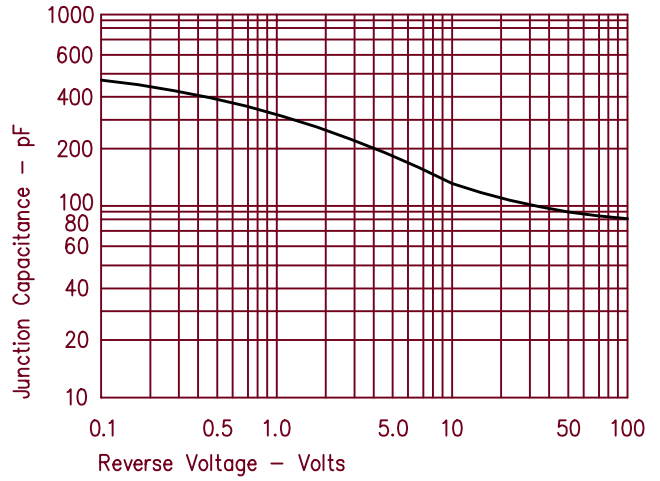


Figure 4
Forward Current Derating

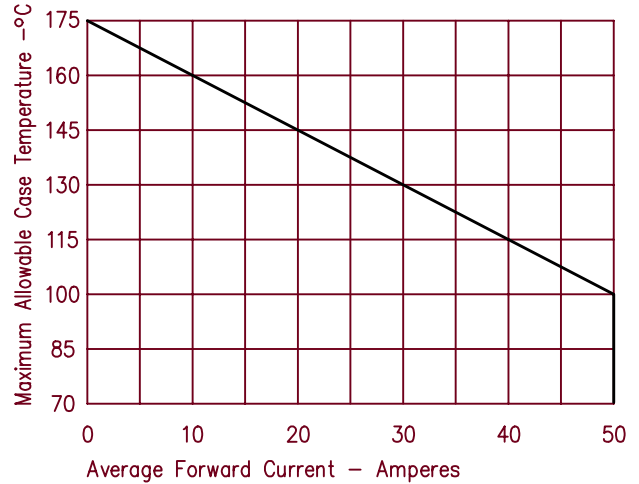


Figure 2
Typical Reverse Characteristics

