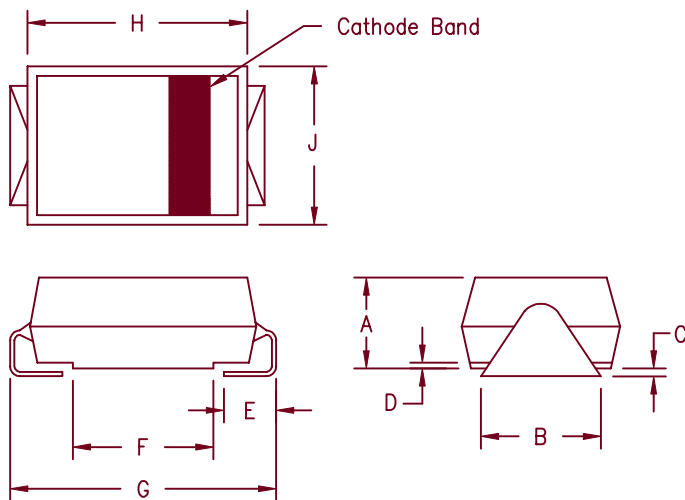


# 1 Amp Standard Recovery Rectifier GS1A — GS1M



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.078	.115	1.98	2.95	
B	.067	.089	1.70	2.25	
C	.002	.008	0.05	0.20	
D	---	0.02	---	0.51	
E	.035	.055	0.89	1.40	
F	.065	.096	1.65	2.45	
G	.205	.224	5.21	5.69	
H	.160	.180	4.06	4.57	
J	.100	.112	2.57	2.84	

DO-214AC  
(SMAJ) (High Profile)

Microsemi Catalog Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
GS1A	50V	50V
GS1B	100V	100V
GS1D	200V	200V
GS1G	400V	400V
GS1J	600V	600V
GS1K	800V	800V
GS1M	1000V	1000V

- High soldering temp. -250°C, 10sec.
- 150°C Junction Temperature
- Low thermal resistance

## Electrical Characteristics

Average forward current	$I_{F(AV)}$ 1 Amp	$T_L = 75^\circ\text{C}, V_R = V_{RRM}$
Maximum surge current	$I_{FSM}$ 30 Amps	8.3ms, half sine
Max peak forward voltage	$V_{FM}$ 1.1 Volts	$I_{FM} = 1\text{A}; T_J = 25^\circ\text{C}^*$
Max peak reverse current	$I_{RM}$ 10 $\mu\text{A}$	$V_{RRM}, T_J = 25^\circ\text{C}$
Max peak reverse current	$I_{RM}$ 50 $\mu\text{A}$	$V_{RRM}, T_J = 125^\circ\text{C}^*$
Typical junction capacitance	$C_J$ 25 pF	$V_R = 5.0\text{V}, T_J = 25^\circ\text{C}$

\*Pulse test: Pulse width 300 usec, Duty cycle 2%

## Thermal and Mechanical Characteristics

Storage temperature range	$T_{STG}$	-55°C to 150°C
Operating temperature range	$T_J$	-55°C to 150°C
Max thermal resistance - Junction to Lead	$R_{\theta JL}$	15°C/W

9-11-02 Rev. IR

# GS1A — GS1M

Figure 1  
Typical Forward Characteristics

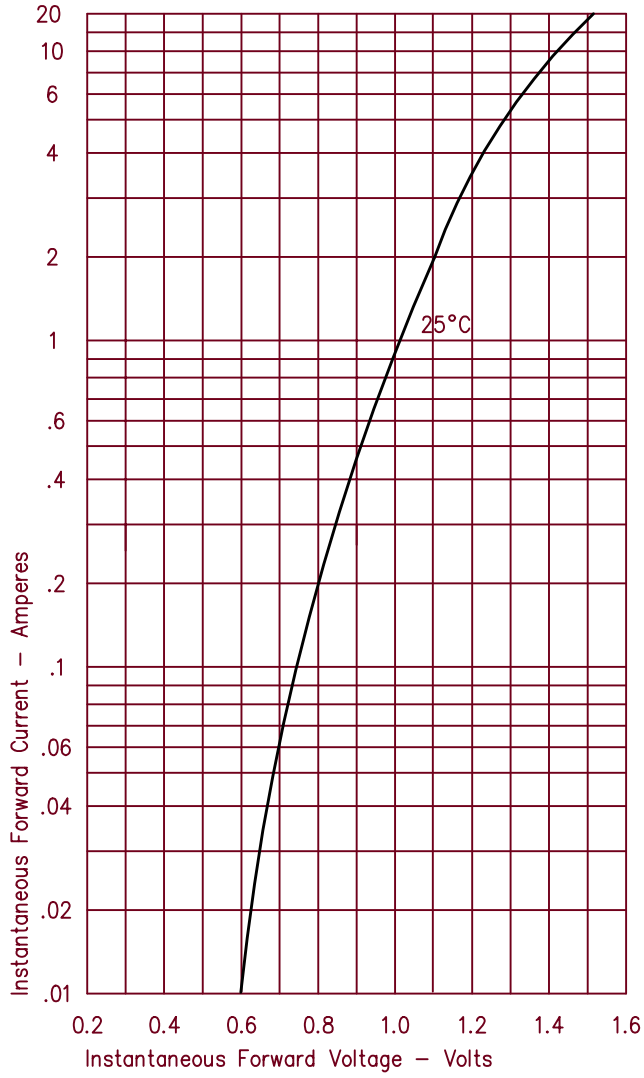


Figure 2  
Typical Junction Capacitance

