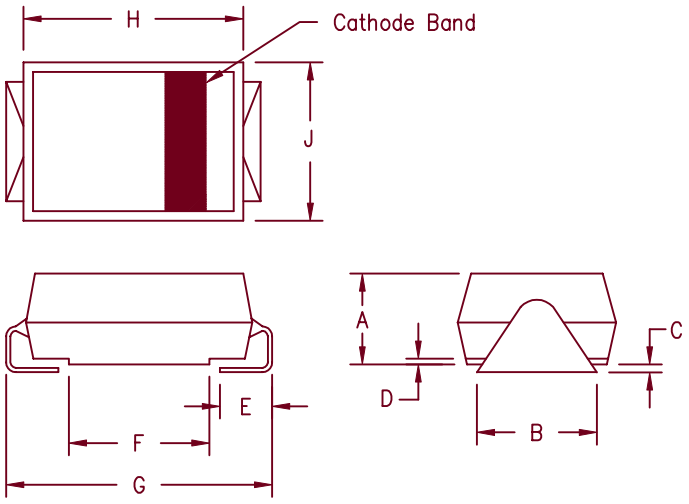
1 Amp Standard Recovery Rectifier

GS1A – GS1M



Dim.	Inches		Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
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°C, V_R = VRRM
Maximum surge current	I_{FSM}	30 Amps	8.3ms, half sine
Max peak forward voltage	V_{FM}	1.1 Volts	I_{FM} = 1A; T_J = 25°C*
Max peak reverse current	I_{RM}	10 uA	VRRM, T_J = 25°C
Max peak reverse current	I_{RM}	50 uA	VRRM, T_J = 125°C*
Typical junction capacitance	C_J	25 pF	V_R = 5.0V, T_J = 25°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

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GS1A – GS1M

Figure 1
Typical Forward Characteristics

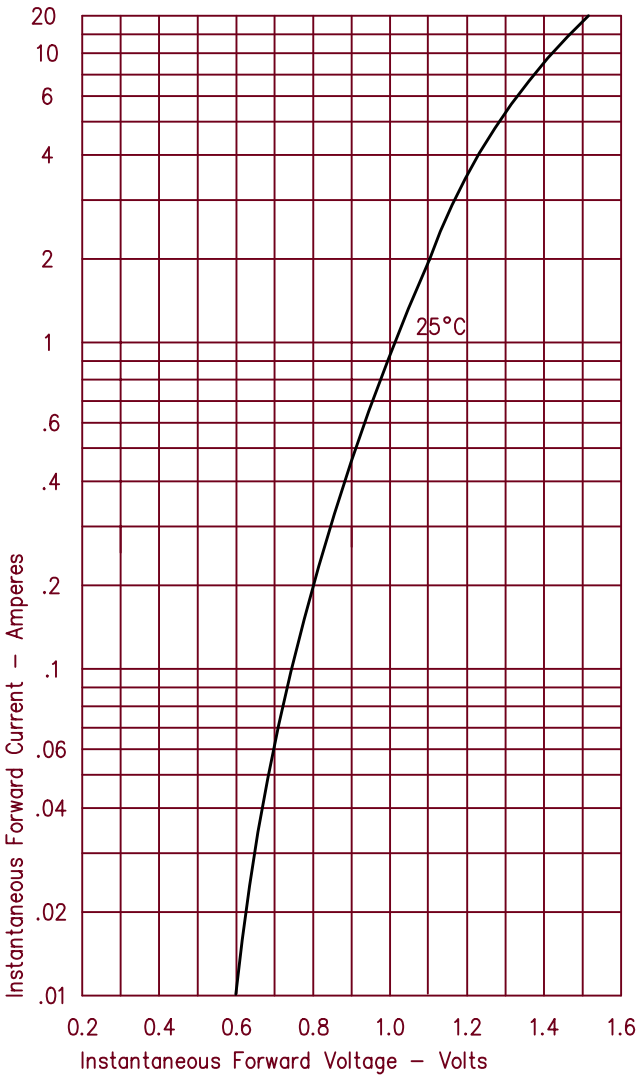

Figure 2
Typical Junction Capacitance