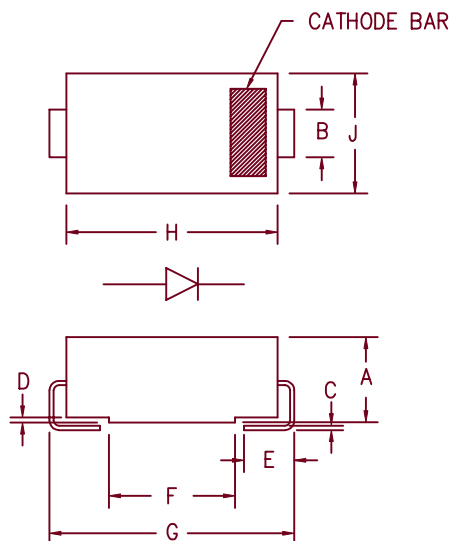


Ultra Fast Recovery Rectifier ES1G



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.078	.115	1.98	2.92	
B	.068	.087	1.73	2.21	
C	----	.005	----	0.13	
D	----	.020	----	0.51	
E	.030	.060	0.76	1.52	
F	.065	.084	1.65	2.13	
G	.194	.228	4.93	5.79	
H	.157	.177	3.99	4.50	
J	.100	.110	2.57	2.79	

SMA (DO-214AC)

Microsemi
Catalog Number

ES1G

Working
Peak Reverse
Voltage

400V

Repetitive
Peak Reverse
Voltage

400V

- Ultra Fast Recovery
- 150°C Junction Temperature
- VRRM 400 Volts
- 1 Amp Current Rating
- ^tRR 60nS Max.

Electrical Characteristics

Average forward current
Maximum surge current
Max peak forward voltage
Max peak forward voltage
Max reverse recovery time
Max peak reverse current
Typical junction capacitance

I_{F(AV)} 1.0 Amps
I_{FSM} 30 Amps
V_{FM} .80 Volts
V_{FM} 1.35 Volts
^tRR 60 nS
I_{RM} 5 μ A
C_J 45 pF

T_L = 75°C, Square wave
8.3ms, half sine, T_J = 175°C
I_{FM} = 0.1A: T_J = 25°C*
I_{FM} = 1.0A: T_J = 25°C*
1/2A, 1A, 1/4A, T_J = 25°C
V_{RRM}, T_J = 25°C
V_R = 4V, T_J = 25°C

*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temperature range
Operating junction temp range
Weight

T_{STG}
T_J

-55°C to 150°C
-55°C to 150°C
.0047 ounces (.013 grams) typical

4-4-03 Rev. 1