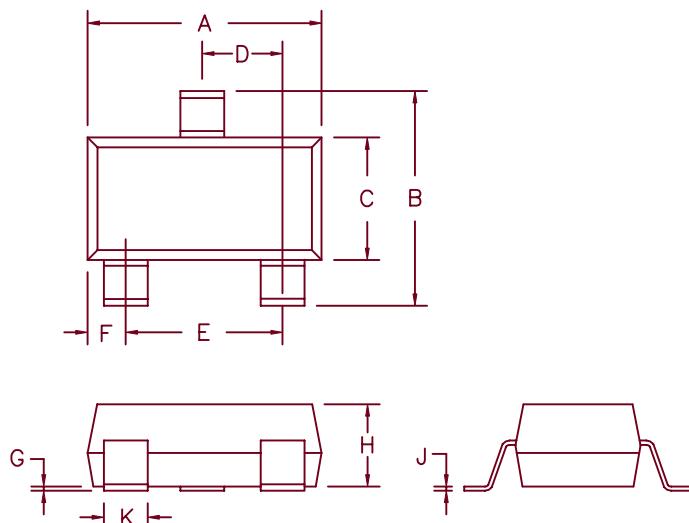


200 mW Schottky Diode BAT54, BAT54A, BAT54C, BAT54S



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.110	.120	2.80	3.04	
B	.083	.098	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	0.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	0.45	0.06	
G	.0005	.0039	0.013	0.100	
H	.035	.044	0.89	1.12	
J	.003	.007	0.085	0.18	
K	.015	.020	0.37	0.51	

SOT-23

Microsemi
Catalog Number

BAT54
BAT54A
BAT54C
BAT54S

Peak Reverse
Voltage

30V
30V
30V
30V

Pin
Configuration

Figure 1
Figure 2
Figure 3
Figure 4

Single
Dual
Dual
Dual

Pin Configuration – Top View

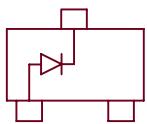


Figure 1 54

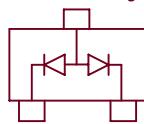


Figure 2 54A

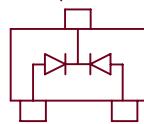


Figure 3 54C

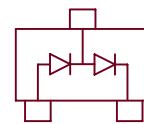


Figure 4 54S

Electrical Characteristics

Total Power Dissipation

P_D 200 mW

T_A = 25°C

Maximum forward voltage drop

V_{FM} 0.32 Volts

IFM = 1mA, T_J = 25°C*

V_{FM} 0.50 Volts

IFM = 30mA; T_J = 25°C*

Maximum reverse current

I_R 2.0 μA

V_R = 25V, T_J = 25°C

Non-repetitive peak forward current

I_{FSM} 600 mA

Pulse ≤ 1 second

Typical junction capacitance

C_J 10 pF

1.0 MHz, V_R = 1.0V, 25°C

Reverse recovery time

t_{rr} 5 nS

IF = I_R = 10 mA, I_(REC) = 1 mA

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

Thermal and Thermal Characteristics

Storage temperature range

T_{STG}

-55°C to 150°C

Operating junction temp range

T_J

-55°C to 125°C

Maximum thermal resistance

R_{θJA}

160°C/W Junction to ambient

3-25-02 Rev. 1



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