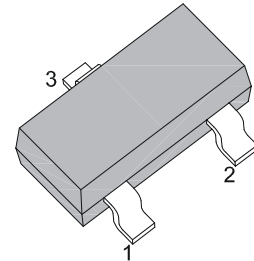


Multiple Terminals SMD Schottky Diodes

Features

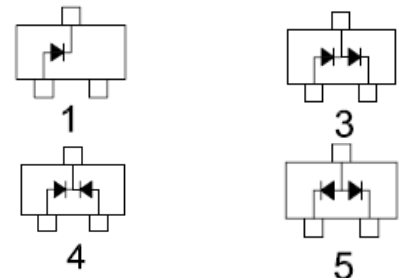
- Low Turn-on Voltage
- Fast Switching
- High Conductance
- Electrically Identical to Standard JEDEC
- RoHS Compliant



SOT-23

Mechanical Data

Case:	SOT-23, Plastic Package
Terminals:	Solderable per MIL-STD-202G, Method 208
Weight:	Approx. 0.008 gram



Maximum Ratings & Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	BAT54	BAT54A	BAT54C	BAT54S	Unit	Conditions
	Pinout Figure	1	5	4	3		
	Marking Code	L4	L42	L43	L44		
V_{RRM}	Repetitive Peak Reverse Voltage	30				V	
I_{F(AV)}	Maximum Average Forward Current	200				mA	T _A =75° C
I_{FSM}	Peak Forward Surge Current, Pulse Width=1.0s (JEDEC Method)	600				mA	
V_F	Forward Voltage	0.24				V	I _F =0.1mA
		0.32					I _F =1.0mA
		0.4					I _F =10mA
		0.5					I _F =30mA
		1.0					I _F =100mA
I_R	Maximum Reverse Current	2.0				μA	V _R = 25V
C_J	Junction Capacitance	10				pF	V _R =1V, f=1MHz
R_{thJA}	Thermal Resistance, Junction to Ambient	635				° C /W	
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-55 to +125				° C	

Typical Characteristics Curves

Fig.1- Forward Current Derating

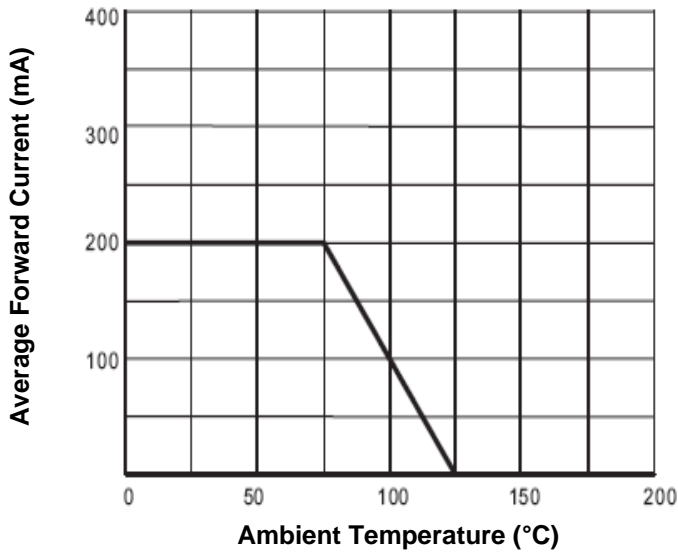


Fig.2- Typical Forward Characteristics

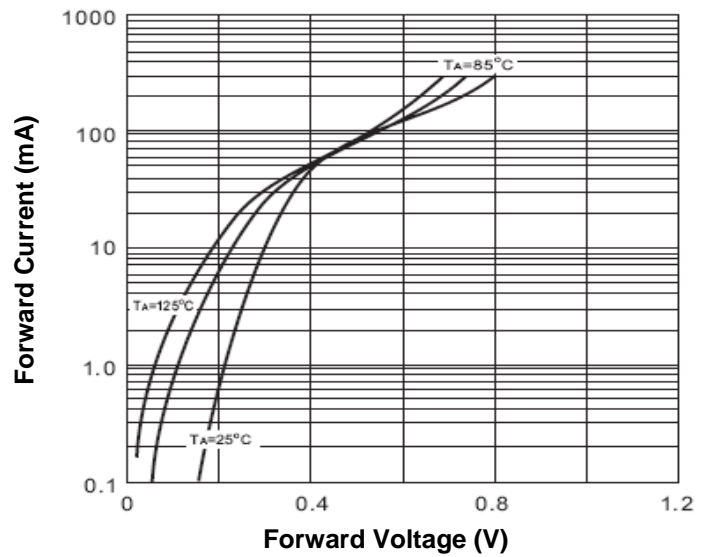


Fig.3-Typical Reverse Characteristics

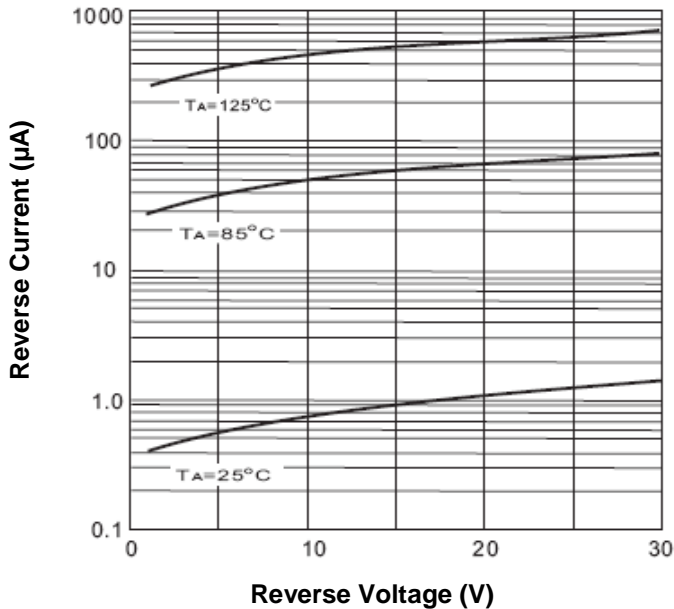
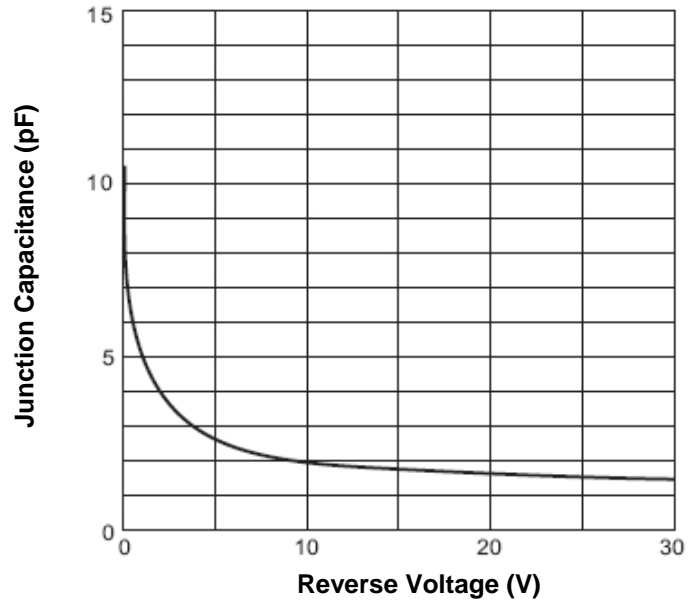


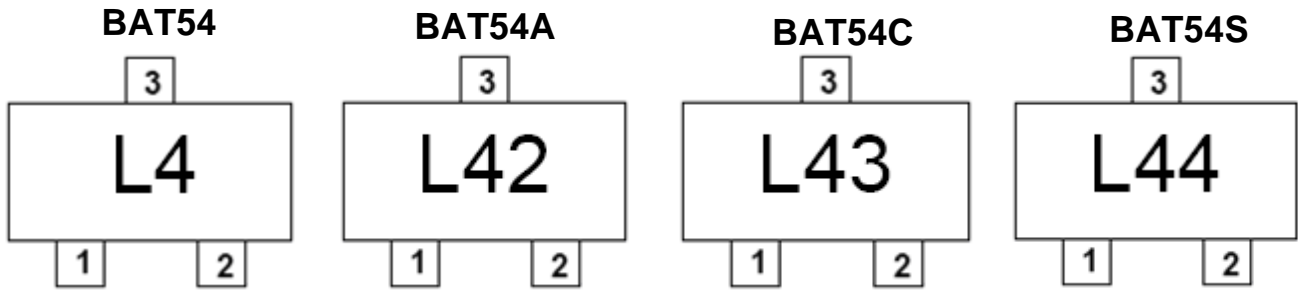
Fig.4- Typical Junction Capacitance



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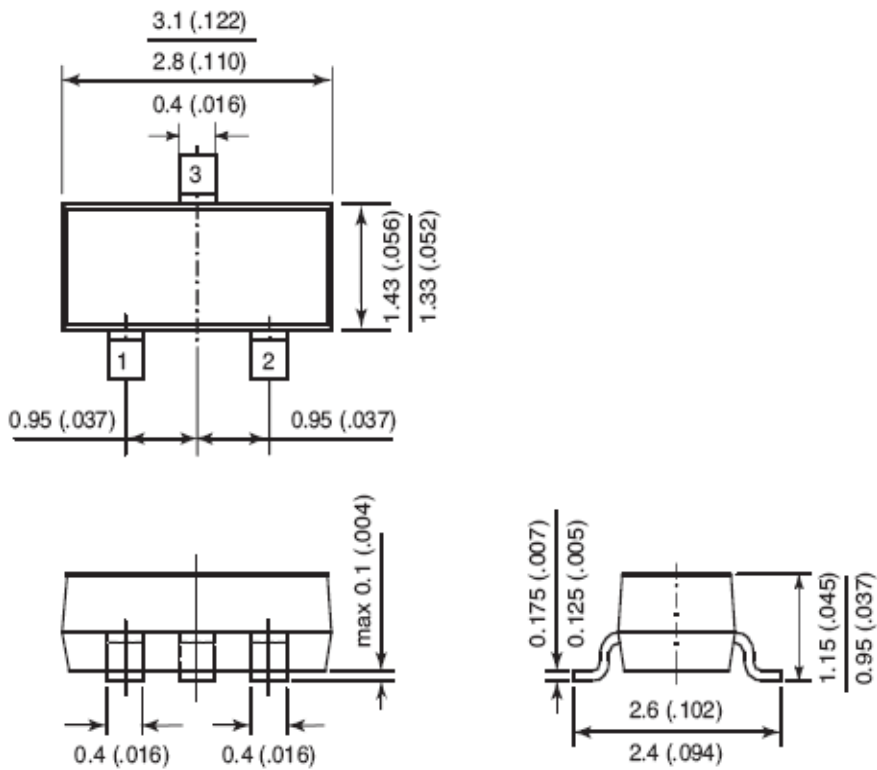
BAT54/A/C/S

Marking Information



Dimensions in mm (inch)

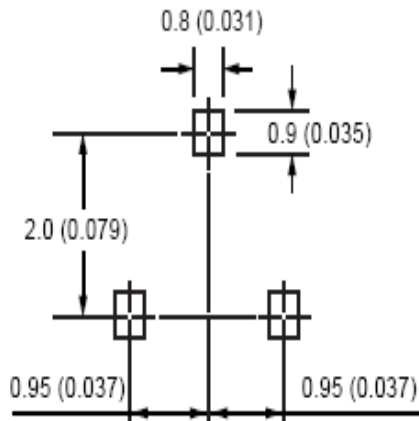
SOT-23



Multiple Terminals SMD Schottky Diodes

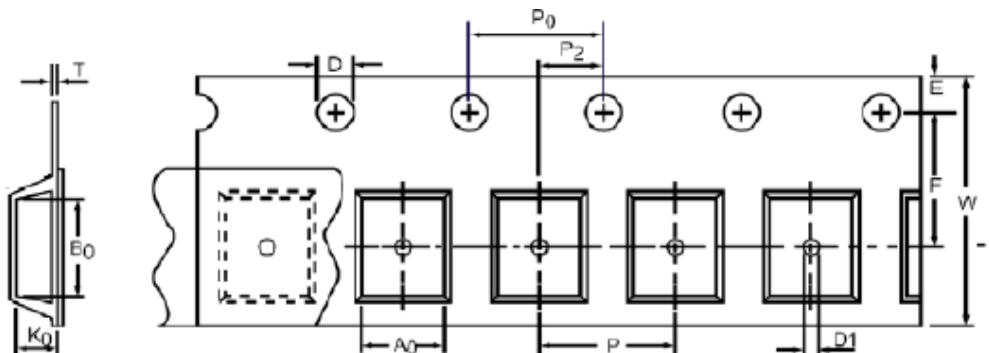
BAT54/A/C/S

Mounting Pad Layout in mm (inch)



Packing Information:

Carrier Tape Dimensions (in mm)



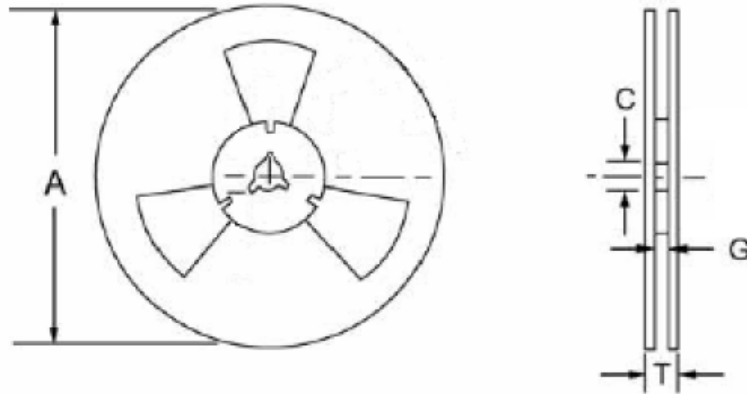
Product Type	A0	B0	K0	D	P0	P
	See Note			1.55±0.5	4.0±0.1	4.0±0.1
SOT-23	W	E	T	D1	F	P2
	8.0+0.3/-0.1	1.75±0.1	0.38±0.1	1.0±0.05	3.5±0.5	2.0±0.05

Note: Symbol A0, B0, K0 are determined by the maximum dimensions of the component size.
The clearance between the component and the cavity must be within 0.05 mm (0.002") min. to 0.50 mm (0.02") max. for 8 mm tape.

Multiple Terminals SMD Schottky Diodes

BAT54/A/C/S

Reel Dimensions (in mm)



A	C	G	T
178.0±2.0	13.0±0.5	8.4±2.0	14.4 max.

Packing Quantity Information:

Quantity	PCS per Inner Box	PCS per Inner Carton
TR70 Tape & Reel	3000/Reel	15000

Inner Carton Size Information:

Cartoon Size
390X270X400 (in mm)

Multiple Terminals SMD Schottky Diodes

BAT54/A/C/S

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