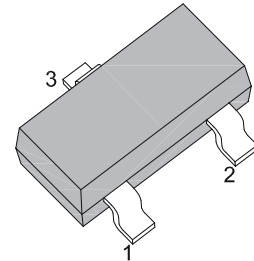


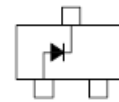
## Multiple Terminals SMD Schottky Diodes

### Features

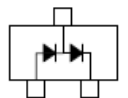
- Low Turn-on Voltage
- Fast Switching
- High Conductance
- Electrically Identical to Standard JEDEC
- RoHS Compliant



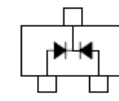
SOT-23



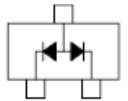
1



3



4



5

### Mechanical Data

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

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

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

### Typical Characteristics Curves

Fig.1- Forward Current Derating

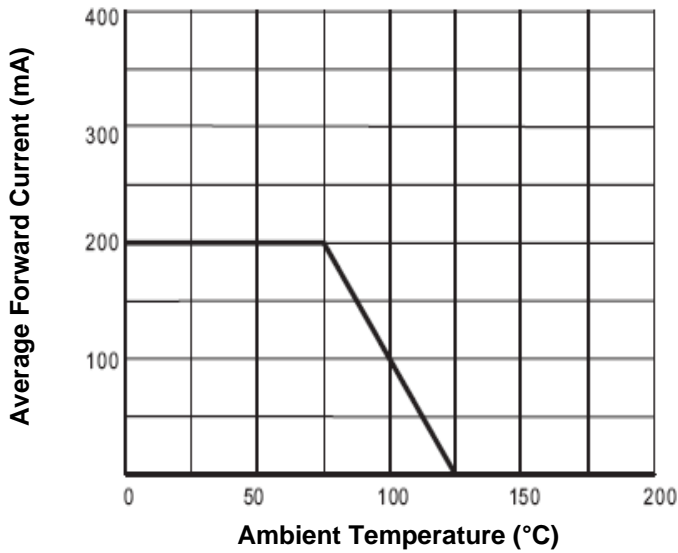


Fig.2- Typical Forward Characteristics

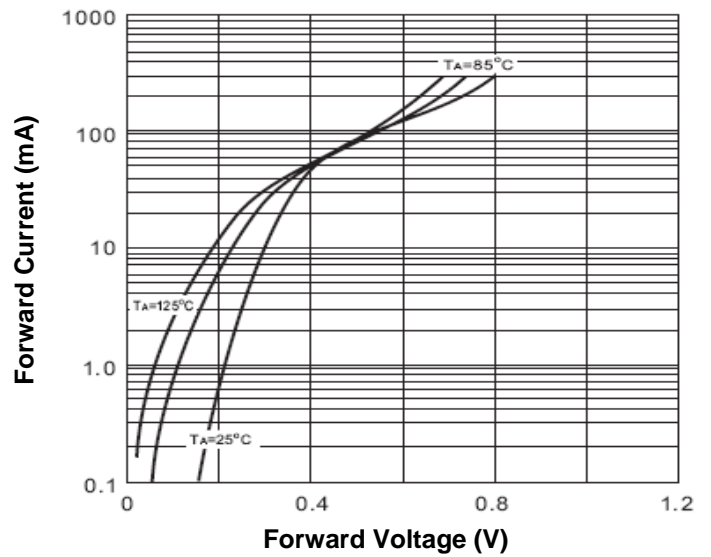


Fig.3-Typical Reverse Characteristics

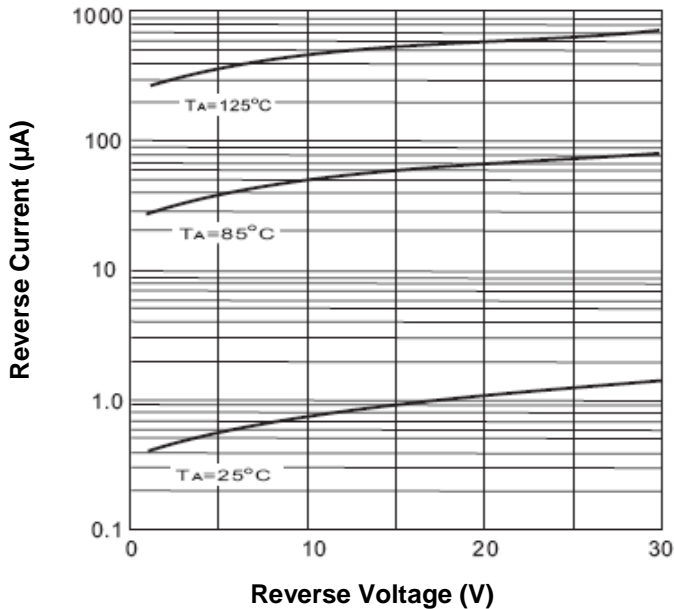
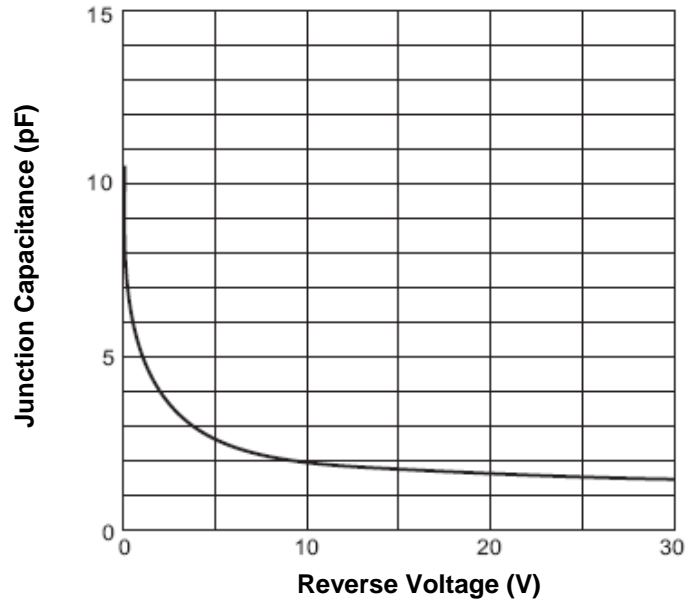


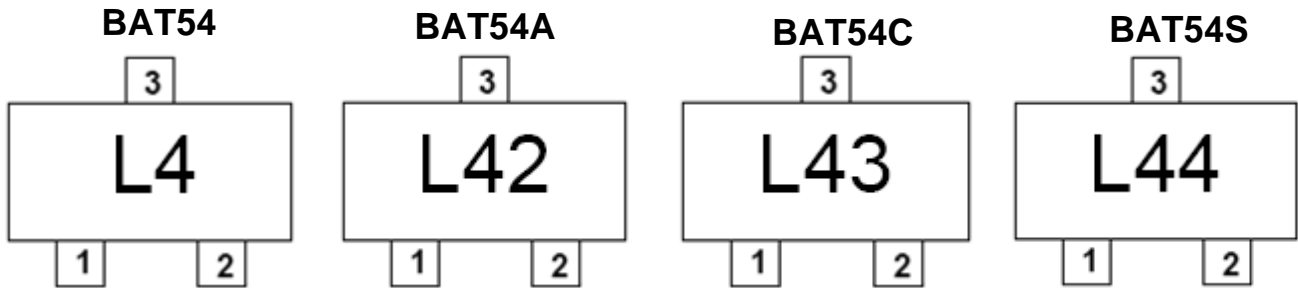
Fig.4- Typical Junction Capacitance



# Multiple Terminals SMD Schottky Diodes

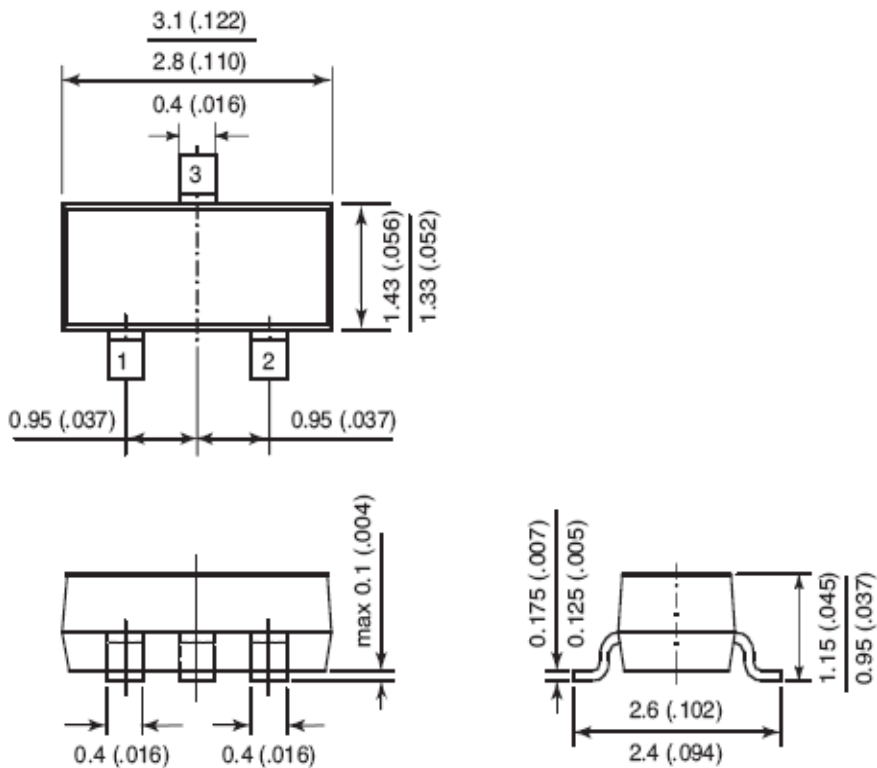
## BAT54/A/C/S

### Marking Information



### Dimensions in mm (inch)

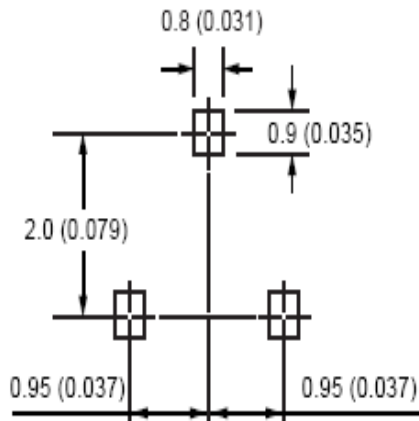
#### SOT-23



# Multiple Terminals SMD Schottky Diodes

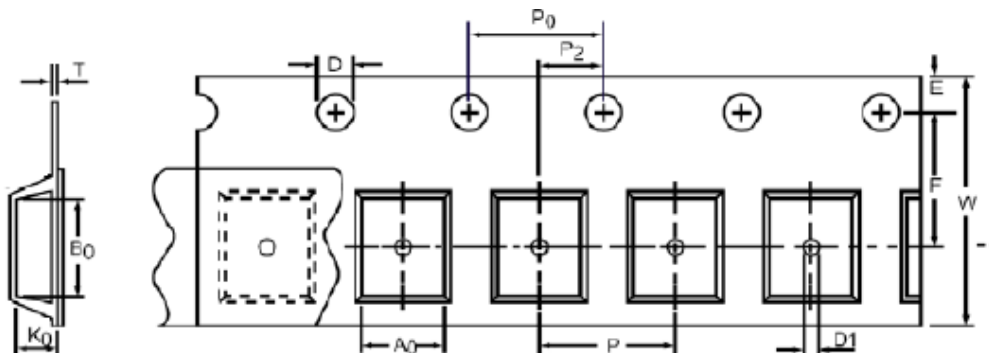
## BAT54/A/C/S

### Mounting Pad Layout in mm (inch)



### Packing Information:

#### Carrier Tape Dimensions (in mm)



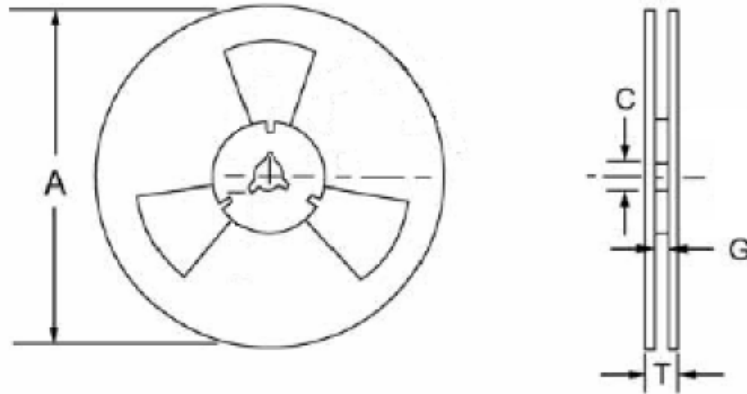
Product Type	A0	B0	K0	D	P0	P
	See Note			1.55±0.5	4.0±0.1	4.0±0.1
SOT-23	W	E	T	D1	F	P2
	8.0+0.3/-0.1	1.75±0.1	0.38±0.1	1.0±0.05	3.5±0.5	2.0±0.05

**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

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**BAT54/A/C/S**

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