

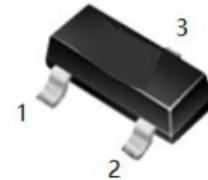
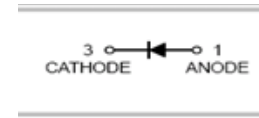


### Features

- Low Forward Voltage.
- Low Capacitance.

### Typical Applications

- UHF Mixer.
- Sampling Circuits.
- Modulators.
- Phase Detection.



BAT17

SOT-23

### Mechanical Data

- Case: SOT-23
- Terminals: solderable per MIL-STD-202, Method 208.

### Ordering Information

Part Number	Package	Shipping	Marking Code
BAT17□	SOT-23	3000/Tape&Reel	17

□: none is for Lead Free package;

“G” is for Halogen Free package.

### Maximum Ratings (@T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Limits	Unit
DC Reverse Voltage	V <sub>R</sub>	4	V
Forward Continuous Current	I <sub>F</sub>	30	mA

### Thermal Characteristics

Parameter	Symbol	Limits	Unit
Thermal Resistance, Junction to Ambient Air <sup>(Note1)</sup>	R <sub>θJA</sub>	500	°C/W
Operating Junction Temperature Range	T <sub>j</sub>	-55 to +100	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C

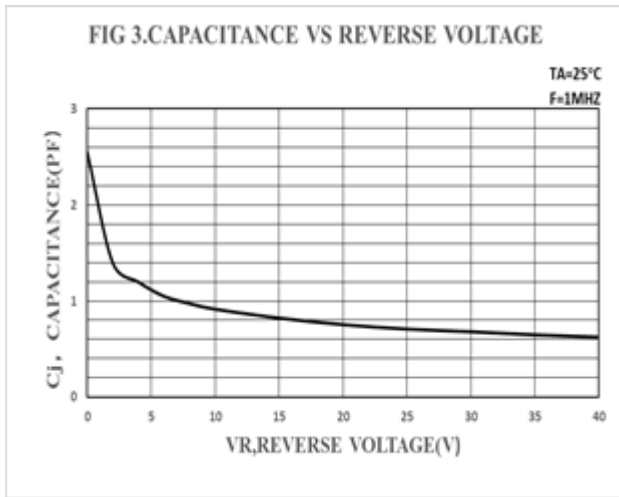
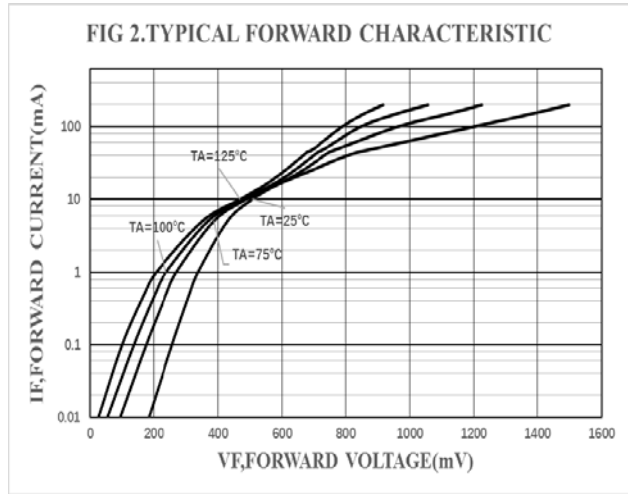
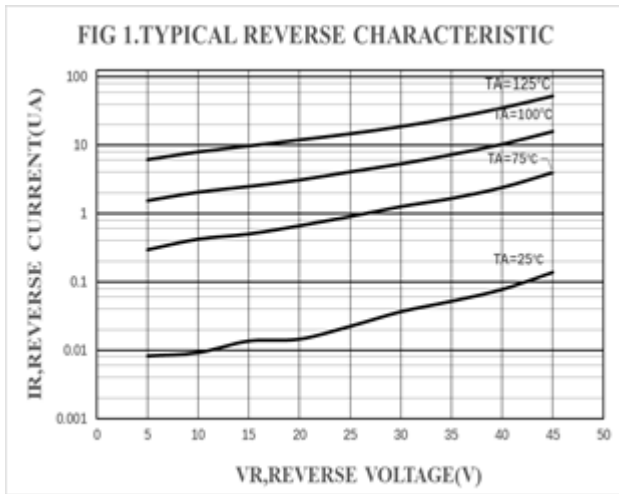
### Electrical Characteristics (@T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =0.1mA	-	-	0.35	V
		I <sub>F</sub> =1mA	-	-	0.45	V
		I <sub>F</sub> =10mA	-	-	0.6	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>R</sub> =3V	-	-	250	nA
		V <sub>R</sub> =3V, T <sub>A</sub> =60°C	-	-	1.25	uA
Capacitance Between Terminals	C <sub>T</sub>	V <sub>R</sub> =0V, f=1MHz	-	-	3	pF

Note1: Refer to SOT23 standard mounting conditions.

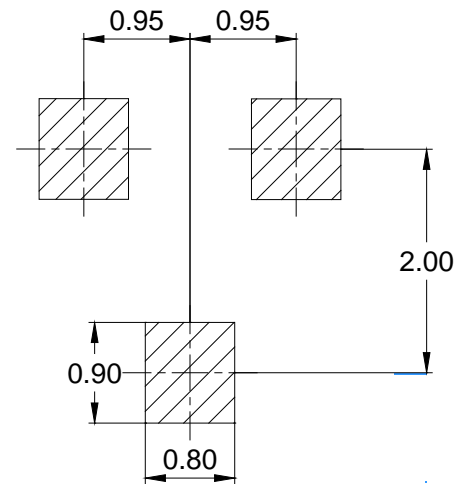


### Ratings and Characteristic Curves ( $T_A=25^\circ\text{C}$ unless otherwise noted)



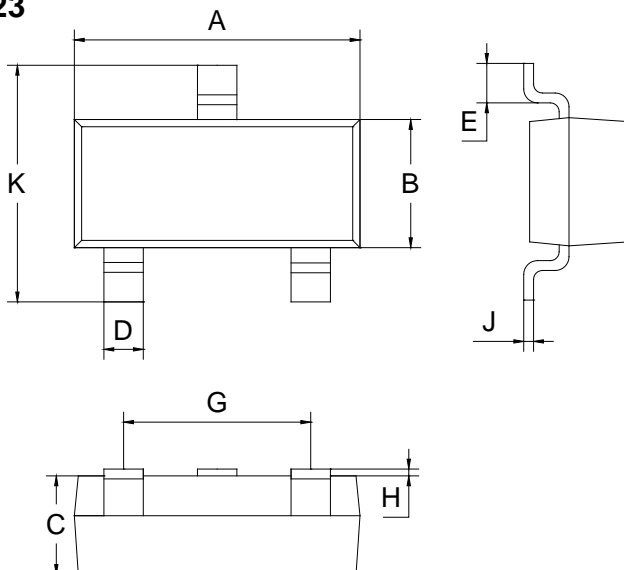
### Mounting Pad Layout(unit:mm)

#### SOT-23



### Package Outline Dimensions(unit:mm)

#### SOT-23



SOT-23		
Dim	Min	Max
A	2.70	3.10
B	1.10	1.50
C	0.90	1.10
D	0.30	0.50
E	0.35	0.48
G	1.80	2.00
H	0.02	0.10
J	0.05	0.15
K	2.20	2.60