

Features

- Low Forward Voltage.
- Low Capacitance.

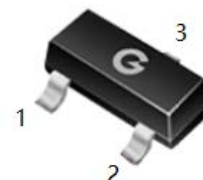
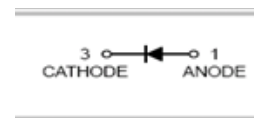


Typical Applications

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

Mechanical Data

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



BAT17

SOT-23

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_A=25°C unless otherwise specified)

Parameter	Symbol	Limits	Unit
DC Reverse Voltage	V _R	4	V
Forward Continuous Current	I _F	30	mA

Thermal Characteristics

Parameter	Symbol	Limits	Unit
Thermal Resistance, Junction to Ambient Air ^(Note1)	R _{θJA}	500	°C/W
Operating Junction Temperature Range	T _j	-55 to +100	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

Electrical Characteristics (@T_A=25°C unless otherwise specified)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward Voltage	V _F	I _F =0.1mA	-	-	0.35	V
		I _F =1mA	-	-	0.45	V
		I _F =10mA	-	-	0.6	V
Reverse Leakage Current	I _R	V _R =3V	-	-	250	nA
		V _R =3V, T _A =60°C	-	-	1.25	uA
Capacitance Between Terminals	C _T	V _R =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)

FIG 1.TYPICAL REVERSE CHARACTERISTIC

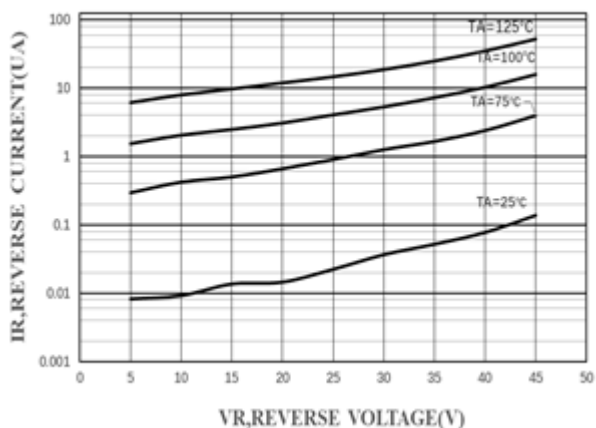


FIG 2.TYPICAL FORWARD CHARACTERISTIC

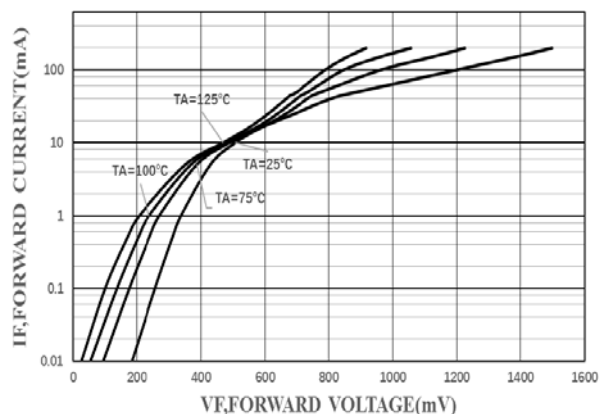
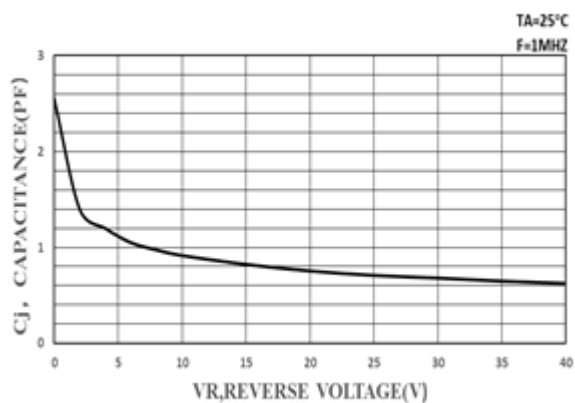
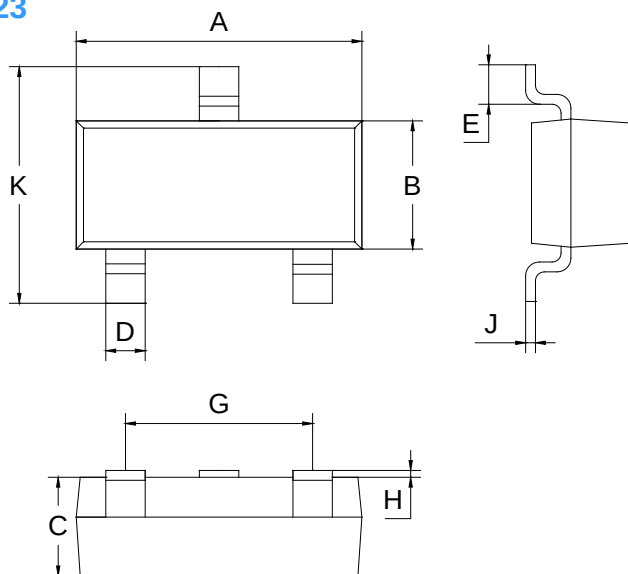


FIG 3.CAPACITANCE VS REVERSE VOLTAGE



Package Outline Dimensions(unit:mm)

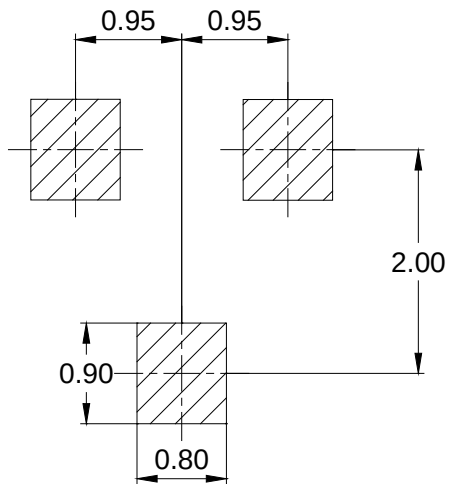
SOT-23



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

Mounting Pad Layout(unit:mm)

SOT-23



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