



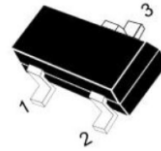
## SSCSBAV23AS6 /SSCSBAV23CS6 /SSCSBAV23SS6

### Fast Switching Diode

#### ● Features

- ✧ Fast Switching Speed
- ✧ Ultra-Small Surface Mount Package
- ✧ Low Reverse Leakage Current
- ✧ Ideal for Battery Powered Portable Applications
- ✧ RoHS Compliant/Green EMC
- ✧ Moisture Sensitivity: Level 3 per J-STD-020

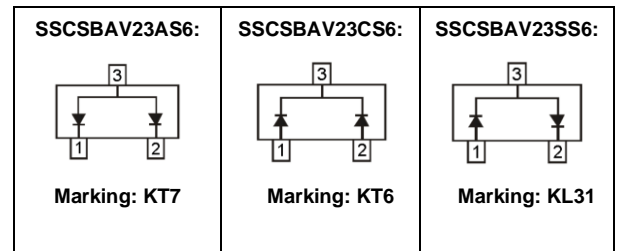
#### ● PIN configuration



**SOT-23**

#### ✧ Applications

- ✧ High speed switching for detection
- ✧ Battery Powered Portable
- ✧ Mobile phones, laptops and other electronic devices



**Circuit Diagram**

#### ● Absolute maximum rating @T<sub>A</sub>=25°C

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	250	V
Working Peak Reverse Voltage	V <sub>RWM</sub>	250	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	175	V
Average Rectified Forward Current	I <sub>FM</sub>	225	mA
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I <sub>FSM</sub>	1.7	A
Power Dissipation	P <sub>D</sub>	350	mW
Thermal Resistance from Junction to Ambient	R <sub>θJA</sub>	357	°C/W
Junction Temperature	T <sub>J</sub>	125	°C
Storage Temperature	T <sub>STG</sub>	-55 ~ +150	°C

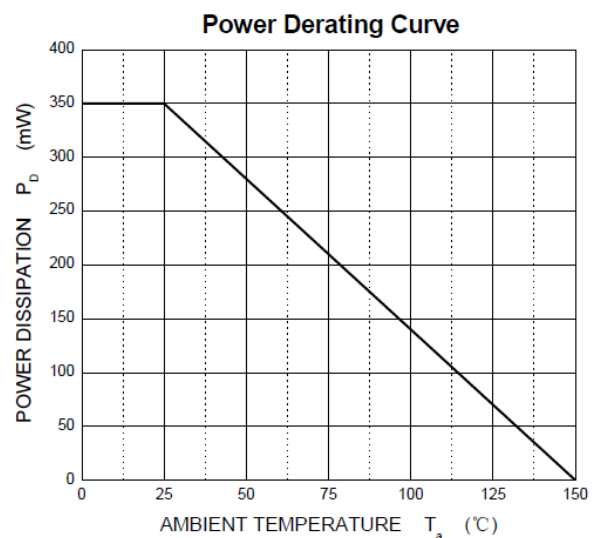
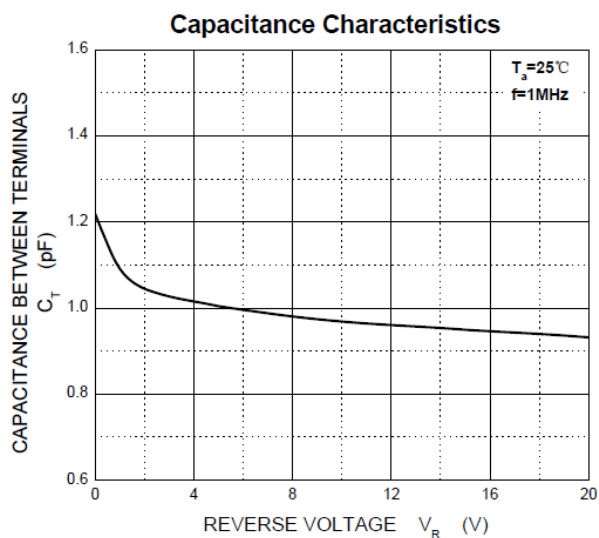
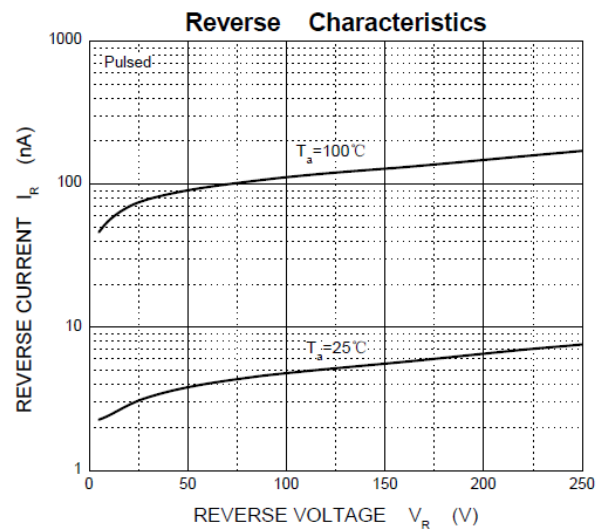
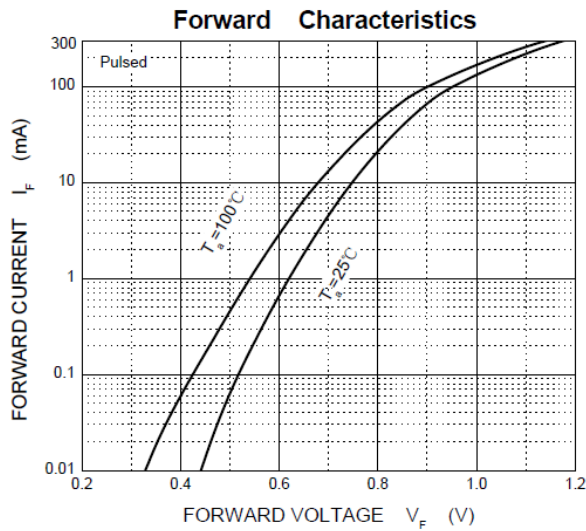


# SSCSBAV23AS6/SSCSBAV23CS6 /SSCSBAV23SS6

## ● Electrical Characteristics @T<sub>A</sub>=25°C

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Voltage	V <sub>R</sub>	I <sub>R</sub> = 100uA	250			V
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 100mA			1	V
		I <sub>F</sub> = 200mA			1.25	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 250V			0.1	μA
Capacitance between terminals	C <sub>T</sub>	V <sub>R</sub> = 0V, f = 1MHz			5	pF
Reverse recovery time	t <sub>rr</sub>	I <sub>F</sub> =I <sub>R</sub> =30mA, R <sub>L</sub> =100Ω, I <sub>rr</sub> =0.1I <sub>R</sub>			50	ns

## ● Typical Performance Characteristics





# SSCSBAV23AS6/SSCSBAV23CS6 /SSCSBAV23SS6

## ● Package Information

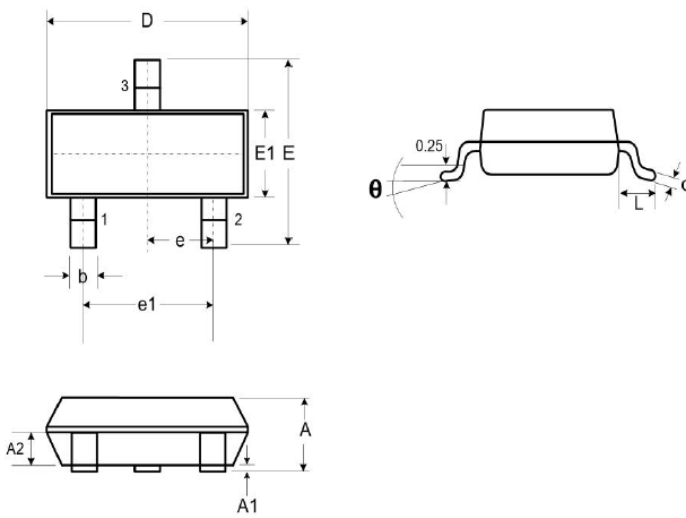
### Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCSBAV23AS6	SOT-23	KT7	3000	7 Inch
SSCSBAV23CS6	SOT-23	KT6	3000	7 Inch
SSCSBAV23SS6	SOT-23	KL31	3000	7 Inch

### Mechanical Data

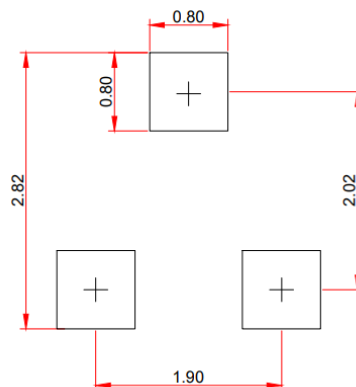
Case: SOT-23

Case Material: Molded Plastic. UL Flammability



DIM	Millimeters		
	Min.	Typ.	Max.
A	0.89	-	1.12
A1	0.01	-	0.10
A2	0.88	0.95	1.02
b	0.30	-	0.51
c	0.08	-	0.18
D	2.80	2.90	3.04
E	2.10	2.37	2.64
E1	1.20	1.30	1.40
e	1.90		
e1	0.95		
L	0.40	0.50	0.60
L1	0.55		
N	3		
θ	0°	-	8°

### Recommended Pad outline (Unit: mm)





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