



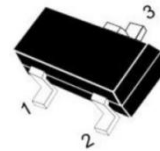
SSCSBAS21/A/C/SS6 Series

Schottky Barrier Diode

● Features

- ✧ Extremely fast switching speed
- ✧ Low forward voltage
- ✧ Very small conduction losses

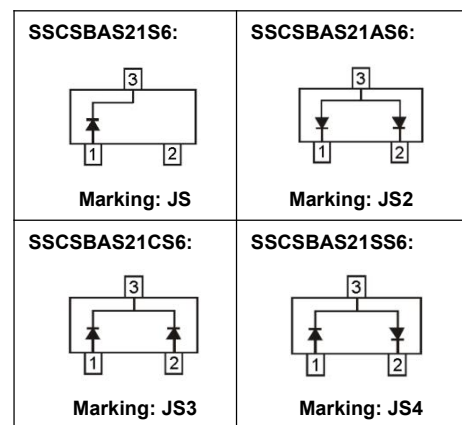
● PIN configuration



SOT-23

● Applications

- ✧ Ultra high-speed switching
- ✧ Voltage clamping
- ✧ Protection circuits
- ✧ Blocking diodes



Circuit Diagram

● Absolute maximum rating @T_A=25°C

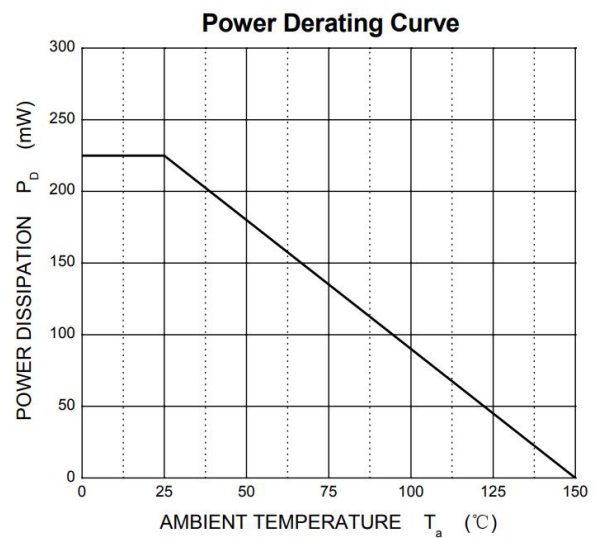
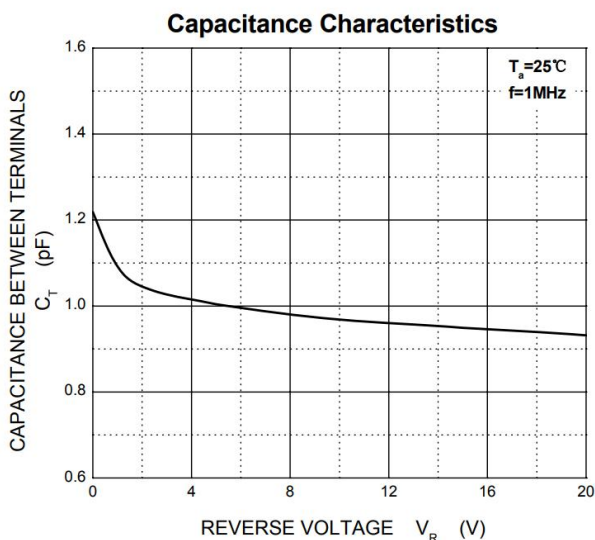
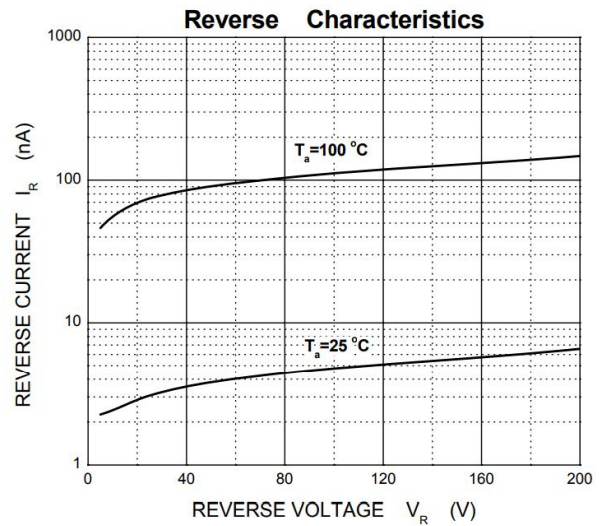
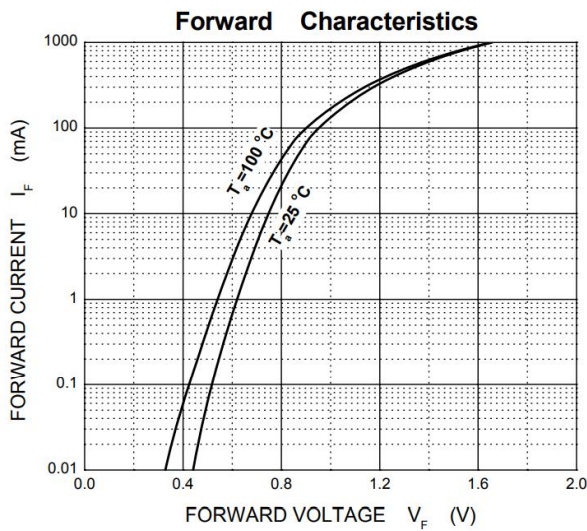
Parameter	Symbol	Value	Unit
Reverse Voltage (DC)	V _R	250	V
Average Rectified Forward Current	I _{FM}	400	mA
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I _{FSM}	2.5	A
Power Dissipation	P _D	225	mW
Thermal Resistance from Junction to Ambient	R _{θJA}	555	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55 ~ +150	°C



● Electrical Characteristics @T_A=25°C

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Voltage	V _R	I _R = 100uA	250			V
Forward Voltage	V _F	I _F = 100mA			1.00	V
		I _F = 200mA			1.25	V
Reverse Current	I _R	V _R = 200V			0.1	uA
Junction Capacitance	C _J	V _R =1V,f=1MHz			5	pF
Reverse recovery time	t _{rr}	I _F =I _R =30mA,R _L =100Ω,I _{RR} =0.1I _R			50	ns

● Typical Performance Characteristics





● Package Information

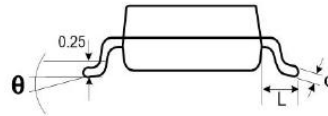
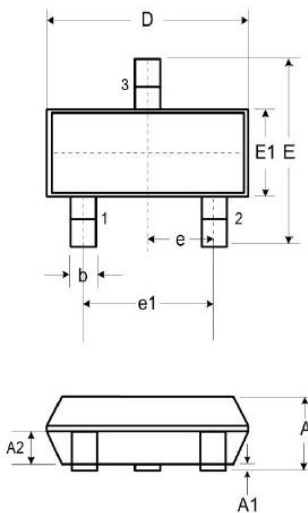
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCSBAS21S6	SOT-23	JS	3000	7 Inch
SSCSBAS21AS6	SOT-23	JS2	3000	7 Inch
SSCSBAS21CS6	SOT-23	JS3	3000	7 Inch
SSCSBAS21SS6	SOT-23	JS4	3000	7 Inch

Mechanical Data

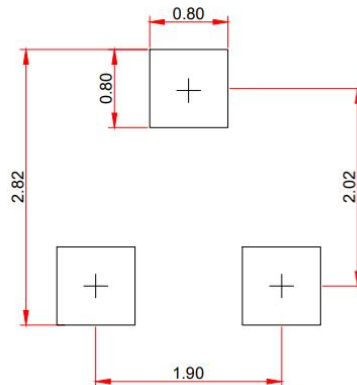
Case: SOT-23

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
e1	1.90		
e	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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