



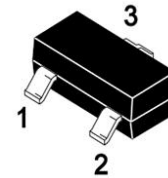
SSCSBAS40/04/05/06S6 Series

Schottky Barrier Diode

● Features

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

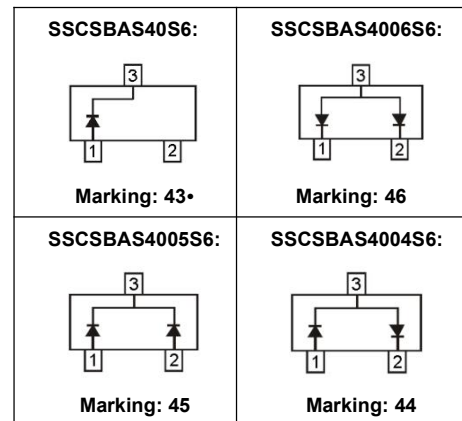
● PIN configuration



SOT-23

● Applications

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



Circuit Diagram

● Absolute maximum rating @T_A=25°C

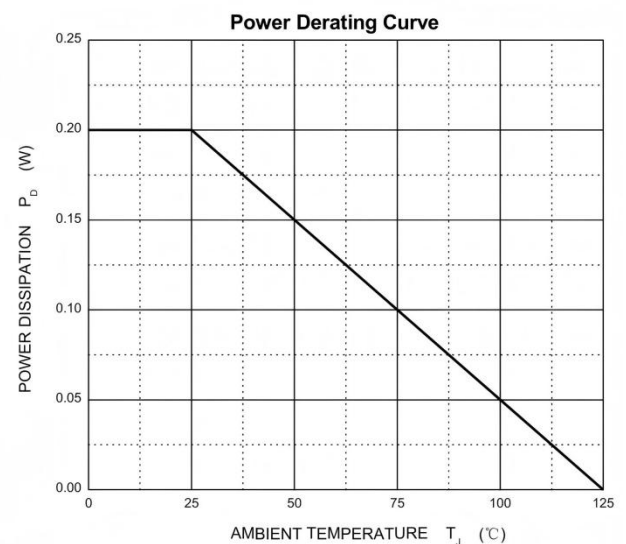
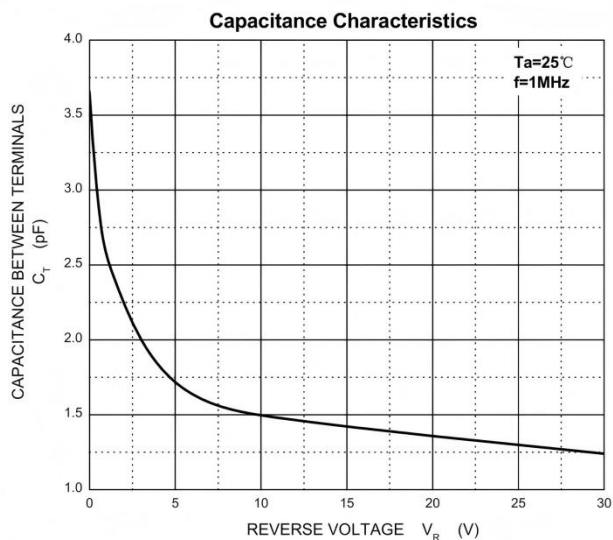
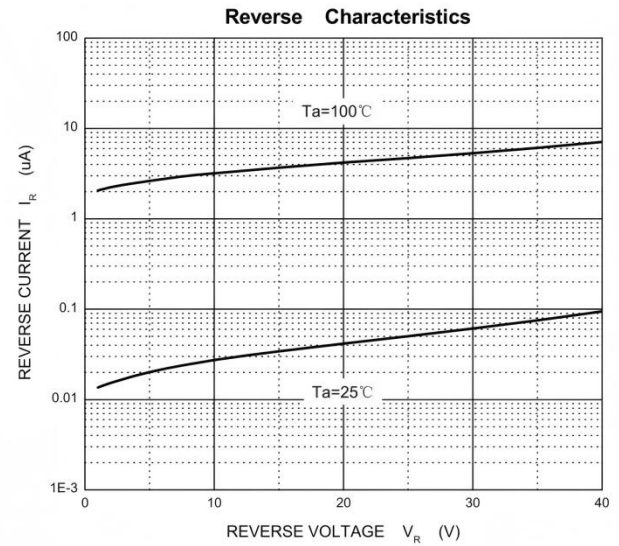
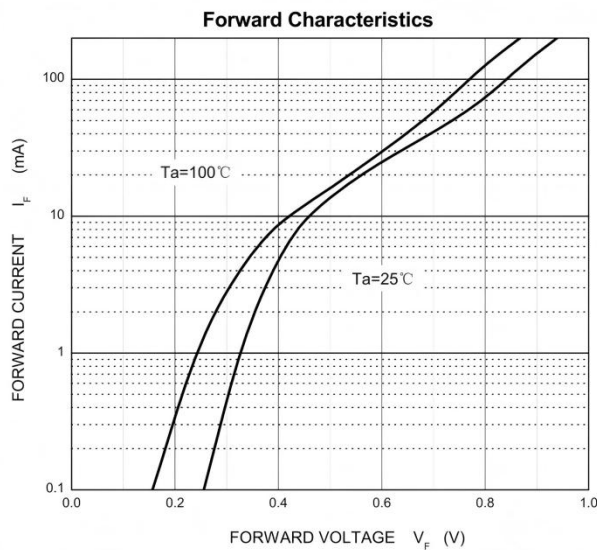
Parameter	Symbol	Value	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	40	V
Reverse Voltage (DC)	V _{DC}	40	V
Average Rectified Forward Current	I _{FM}	200	mA
Power Dissipation	P _D	200	mW
Thermal Resistance from Junction to Ambient	R _{θJA}	500	°C/W
Junction Temperature	T _J	125	°C
Storage Temperature	T _{STG}	-50 ~ +150	°C



● Electrical Characteristics @T_A=25°C

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Voltage	V _R	I _R = 10uA	40			V
Forward Voltage	V _F	I _F = 1mA			380	mV
		I _F = 40mA			1000	mV
Reverse Current	I _R	V _R = 30V			200	nA
Reverse recovery time	t _{rr}	I _F =I _R =10mA, R _L =100Ω, I _{RR} =1XIR			5	ns

● Typical Performance Characteristics





● Package Information

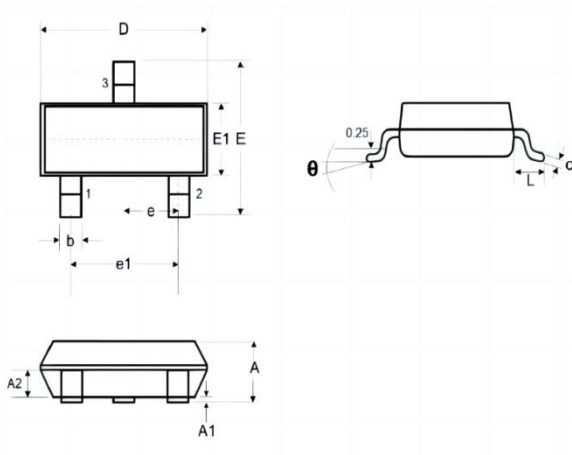
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCSBAS40S6	SOT-23	43 •	3000	7 Inch
SSCSBAS4004S6	SOT-23	44	3000	7 Inch
SSCSBAS4005S6	SOT-23	45	3000	7 Inch
SSCSBAS4006S6	SOT-23	46	3000	7 Inch

Mechanical Data

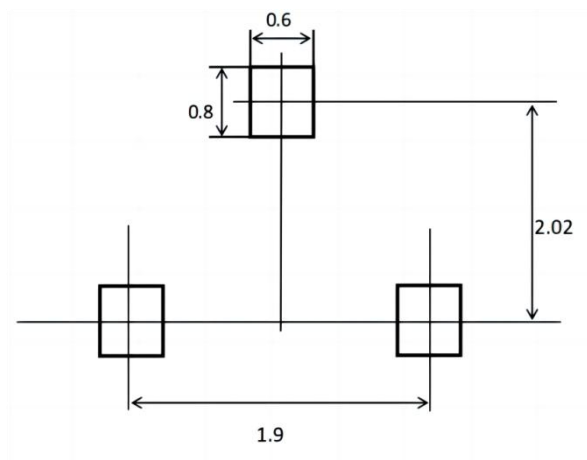
Case: SOT-23

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	2.800	2.90	3.000
E	2.10	2.37	2.64
E1	1.20	1.30	1.40
e	0.95		
e1	1.80	-	2.00
L	0.40	0.50	0.60
L1	0.30		0.50
θ	0°	-	8°

Recommended Pad outline (Unit: mm)





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