

SSCSBAV99S7

Fast Switching Diode

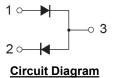
Features

- ♦ 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-323



Applications

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



Marking

• Absolute maximum rating @T_A=25℃

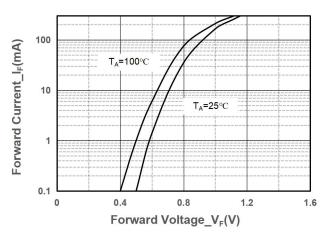
Parameter	Symbol	Value	Unit
Reverse Voltage(DC)	V _R	70	V
Average Rectified Forward Current	I _{FM}	150	mA
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I _{FSM}	2.0	Α
Power Dissipation	P _D	225	mW
Thermal Resistance from Junction to Ambient	R _{θJA}	625	°C/W
Junction Temperature	TJ	125	$^{\circ}$
Storage Temperature	T _{STG}	-55 ~ +150	$^{\circ}$



• Electrical Characteristics @T_A=25℃

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Reverse Voltage	V_R	I _R = 100uA	75			V
Forward Voltage	V _F	I _F =1mA			0.715	V
		I _F = 10mA			0.855	V
		I _F = 50mA			1	V
		I _F = 150mA			1.25	V
Reverse Current	1	V _R = 25V			25	nA
	I _R	V _R = 75V			2.5	μA
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$			2	pF
Reverse recovery time	t _{rr}	$I_F=I_R=10$ mA, $R_L=100\Omega$, $I_{rr}=0.1I_R$			4	ns

• Typical Performance Characteristics



T_A=100°C

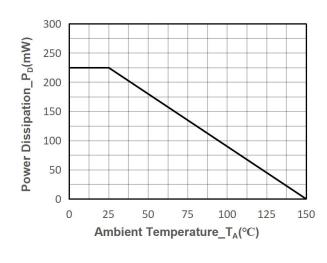
T_A=25°C

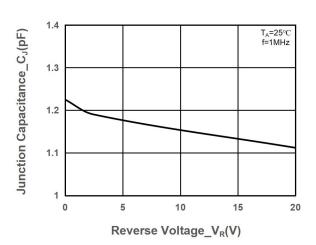
T_A=25°C

Reverse Voltage_V_R(V)

Forward Current vs. Forward Voltage

Reverse Current vs. Reverse Voltage





Power Derating vs. Ambient Temperature

Junction Capacitance vs. Reverse Voltage

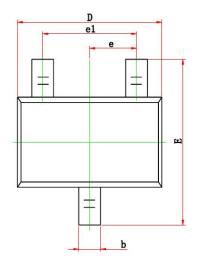


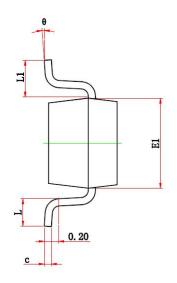
• Package Information

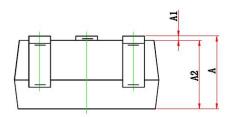
Ordering Information

Device	Package	Marking	Qty per Reel	Reel Size
SSCSBAV99S7	SOT-323	KJG	3000	7 Inch

Mechanical Data







Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min.	Max.	Min.	Max.	
Α	0.900	1.100	0.035	0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.000	0.035	0.039	
b	0.200	0.400	0.008	0.016	
С	0.080	0.150	0.003	0.006	
D	2.000	2.200	0.079	0.087	
E	2.150	2.450	0.085	0.096	
E1	1.150	1.350	0.045	0.053	
е	0.650 TYP.		0.026 TYP.		
e1	1.200	1.400	0.047	0.055	
L	0.260	0.460	0.010	0.018	
L1	0.525 REF.		0.021 REF.		
θ	0°	8°	0°	8°	



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