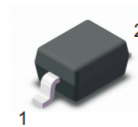


FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Negligible Reverse Recovery Time
- Low Capacitance



Top View

MECHANICAL DATA

•Case: SOD-323

Simplified outline SOD-323 and symbol

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



MARKING:66

Maximum Ratings and Electrical characteristics

Parameter	Symbols	BAT54J,115-JSM	Units
Peak Repetitive Reverse Voltage	V_{RRM}	30	V
RMS reverse voltage	V_{RMS}	28	V
Working Peak Reverse Voltage	V_{DC}	30	V
Peak Forward Surge Current, 1.0s single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	1.5	A
Maximum Instantaneous Forward Voltage $I_F=20mA$ $I_F=200mA$	V_F	0.37 0.60	V
Power Dissipation	P_D	200	mW
Reverse current, $V_R=30V$	I_R	5	μA
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	300	$^{\circ}C/W$
Reverse voltage $I_R=100\mu A$	$V_{(BR)R}$	40	V
Reverse recovery time $I_F=I_R=200mA, I_{rr}=0.1 \times I_R, R_L=100\Omega$	t_{rr}	10	ns
Forward Continuons Current	I_{FM}	380	mA
Total capacitance $V_R=0V, f=1MHz$	C_{tot}	50	pF
Junction temperature	T_j	125	$^{\circ}C$
Storage temperature	T_{stg}	-55 ~ +150	$^{\circ}C$

Fig.1 Forward Current Derating Curve

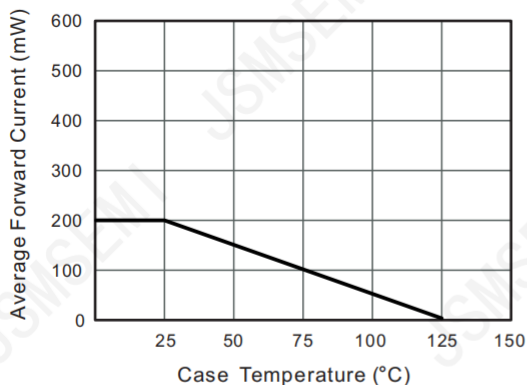


Fig.2 Typical Reverse Characteristics

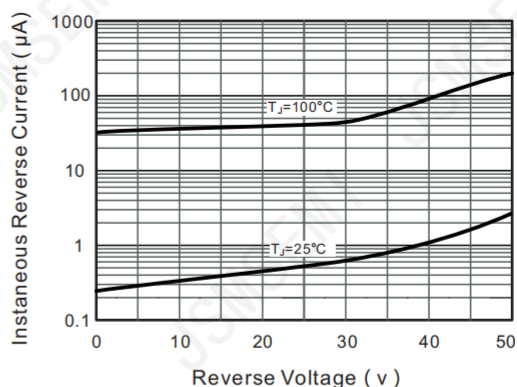


Fig.3 Forward Characteristics

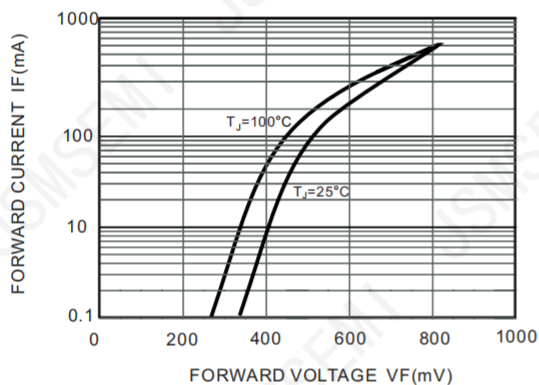


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current

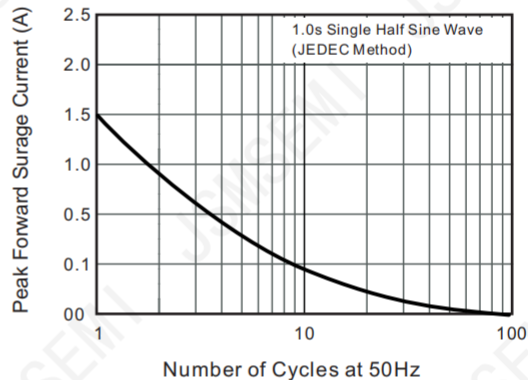
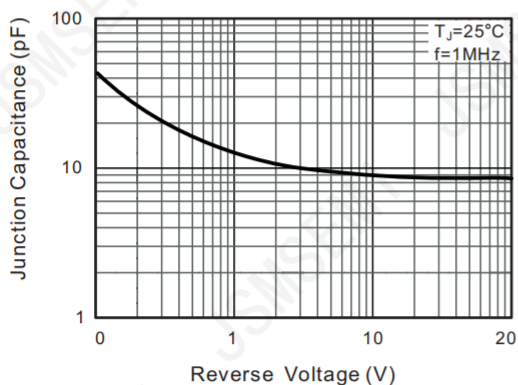
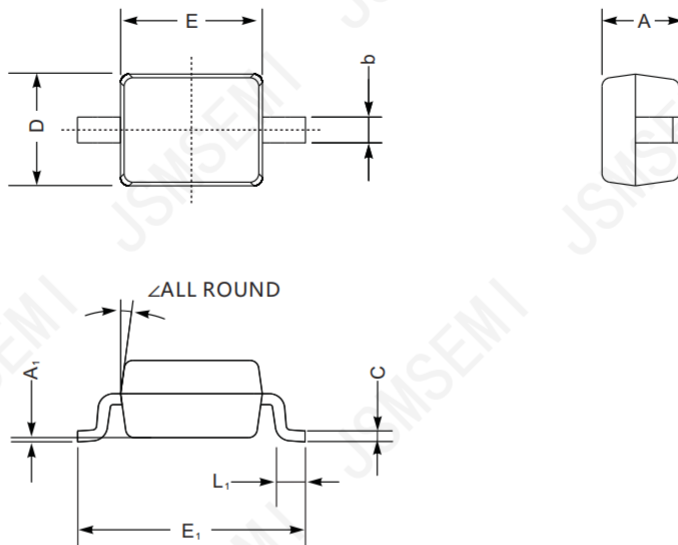


Fig.4 Typical Junction Capacitance



Package Information

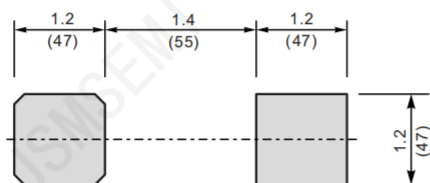
SOD-323



SOD-323 mechanical data

UNIT		A	C	D	E	E ₁	b	L ₁	A ₁	∠
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2	9°
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—	
mil	max	43	5.9	55	70	108	16	16	8	
	min	32	3.1	47	63	100	9.8	7.9	—	

The recommended mounting pad size



Unit: $\frac{\text{mm}}{(\text{mil})}$