

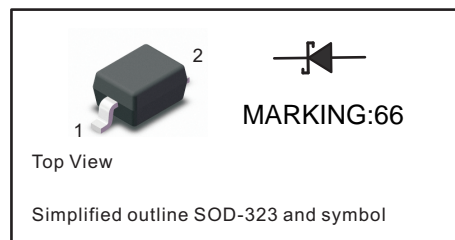
Schottky Barrier Diode

FEATURES

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

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



MECHANICAL DATA

- Case: SOD-323
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 5.48mg / 0.00019oz

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	BAT54J	Units
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
RMS reverse voltage	V_{RMS}	28	V
Working Peak Reverse Voltage	V_{DC}	40	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	V_F	$I_F=20mA$	0.37
		$I_F=200mA$	0.60
Power Dissipation	P_D	200	mW
Reverse current , $V_R=30V$	I_R	5	uA
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	300	°C/W
Reverse voltage	$V_{(BR)R}$	40	V
Reverse recovery time	t_{rr}	10	ns
Forward Continuons Current	I_{FM}	380	mA
Total capacitance	C_{tot}	50	pF
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55 ~ +150	°C

Fig.1 Forward Current Derating Curve

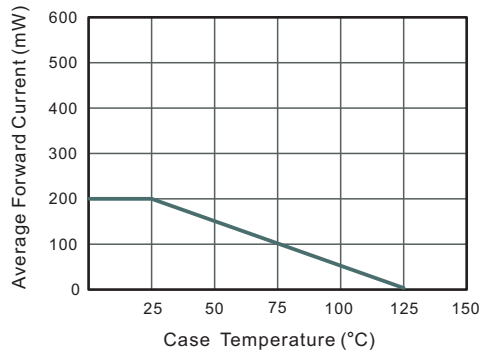


Fig.2 Typical Reverse Characteristics

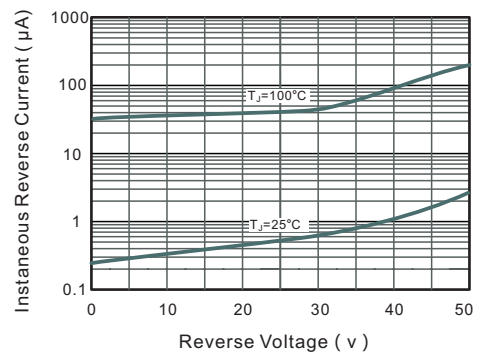


Fig.3 Forward Characteristics

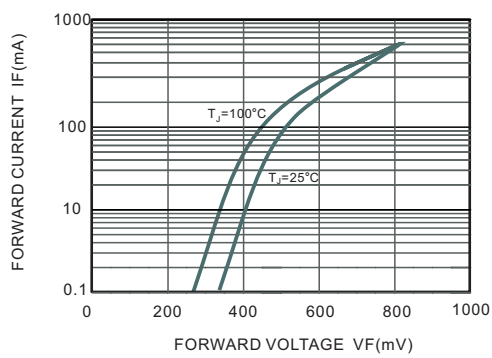


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current

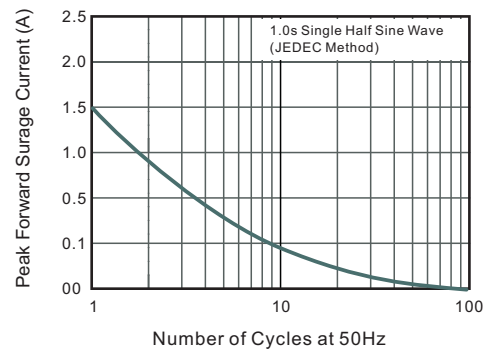
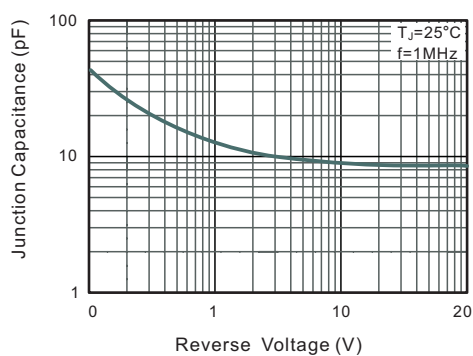


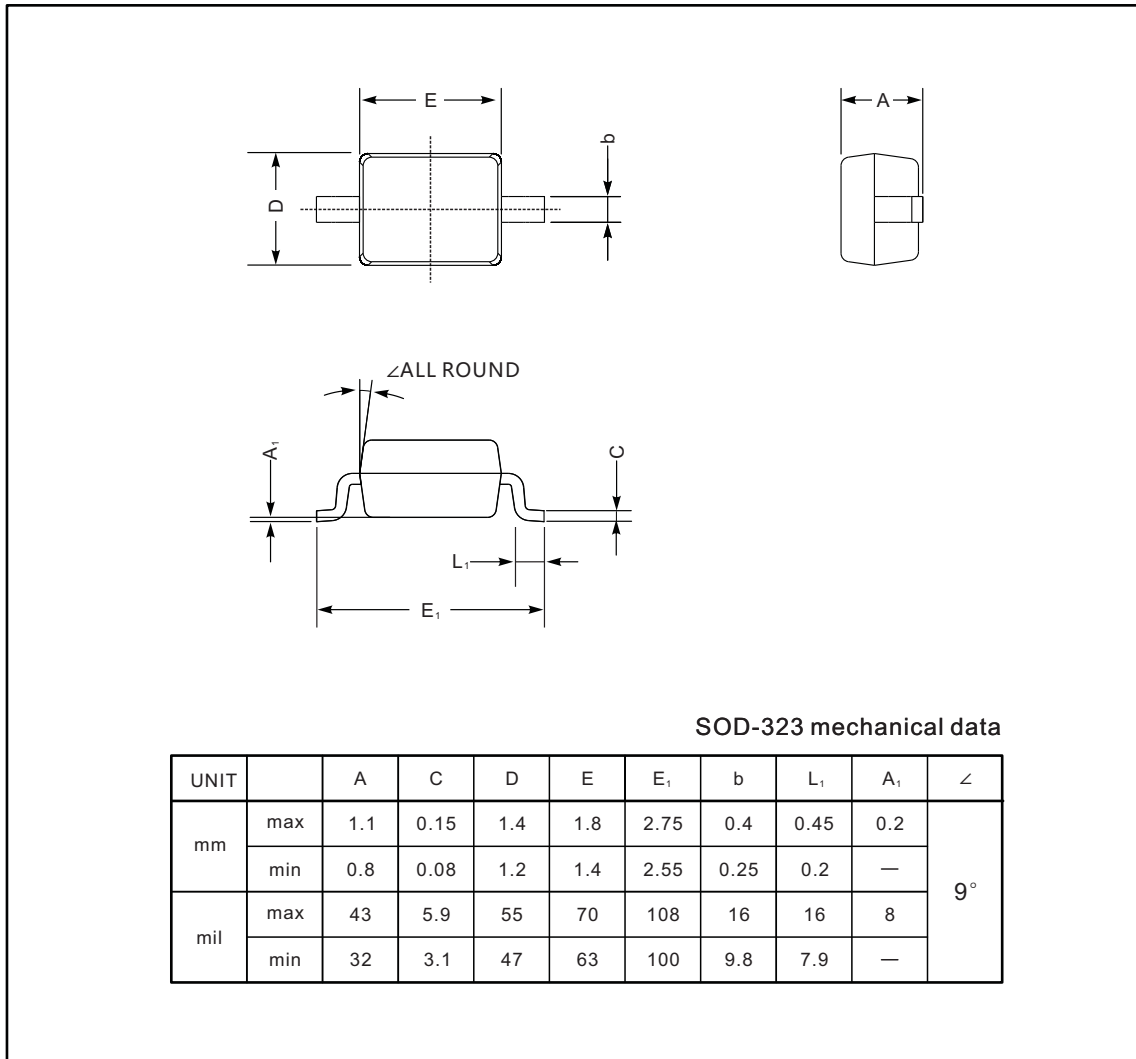
Fig.4 Typical Junction Capacitance



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



The recommended mounting pad size

