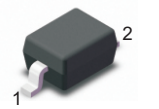
Silicon Epitaxial Planar Diode

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Marking Code: A
Simplified outline SOD-323W and symbol

Automotive Grade

FEATURES

- Small Surface Mounting
- High Speed :t=1.2ns Typ.
- High Reliability With High Surge Current Handing Capability
- High speed switching
- Qualified toAEC-Q101 Standards for High Reliability

MECHANICAL DATA

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

Maximum Ratings at 25 °C

Parameter	Symbols	AT-1SS355WB	Units
Non-Repetitive Peak reverse voltage	V_{RM}	90	V
DC Reverse Voltage	V_R	80	V
Peak forward Current	I_{FM}	225	mA
Average Rectified Output Current	I_O	100	mA
Peak forward surge current (1ms)	I_{FSM}	1	A
Operating and Storage Temperature Range	T_j , T_{stg}	-55 ~ +150	°C

ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbols	AT-1SS355WB	Units
Forward voltage I_F=100mA	V_F	1.2	V
Reverse current V_R=80V	I_R	0.1	μA
Capacitance between terminals V_R=0.5V f=1MHz	C_T	3	pF
Reverse Recovery Time I_F=10mA,V_R=6V,R_L=100Ω	trr	4	ns

Fig.1 FORWARD CHARACTERISTICS

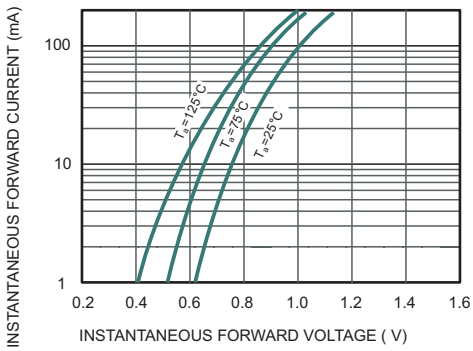


Fig.2 Typical Reverse Characteristics

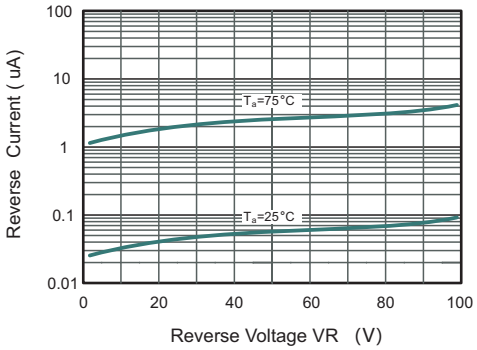
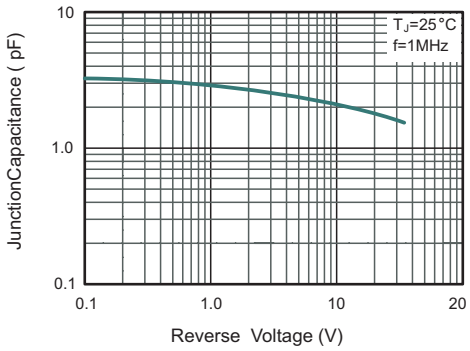


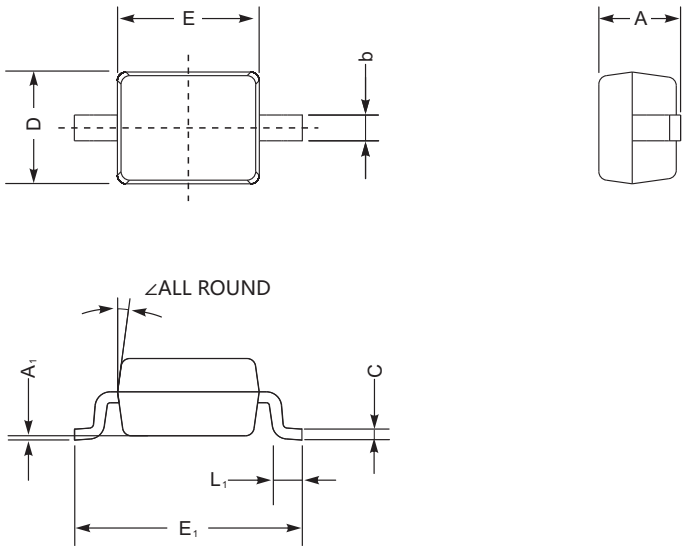
Fig.3 Typical Junction Capacitance



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

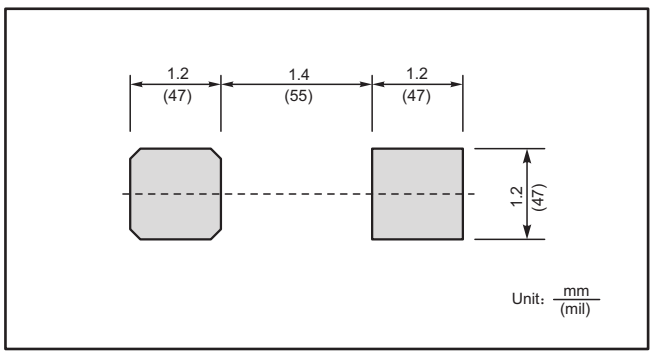
SOD-323W



SOD-323W 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	55	100	9.8	7.9	—	

The recommended mounting pad size



Marking

Type number	Marking code
AT-1SS355WB	A