



## Silicon Epitaxial Planar Diode

### FEATURES

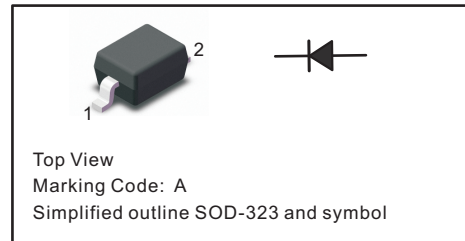
- Small Surface Mounting
- High Speed : $t=1.2\text{ns}$  Typ.
- High Reliability With High Surge Current Handling Capability
- High speed switching

### MECHANICAL DATA

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

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### Maximum Ratings at 25 °C

Parameter	Symbols	1SS355	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
Surge current (1s)	$I_{surge}$	500	mA
Typical Thermal Resistance (1)	$R_{\theta JA}$ $R_{\theta JC}$	170 60	°C/W
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 ~ +125	°C

( 1 ) P.C.B. mounted with 8\*8mm copper pad areas.

### ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbols	1SS355	Units
Forward voltage $I_F=100\text{mA}$	$V_F$	1.2	V
Reverse current $V_R=80\text{V}$	$I_R$	0.1	$\mu\text{A}$
Capacitance between terminals $V_R=0.5\text{V}$ $f=1\text{MHz}$	$C_T$	3	pF
Reverse Recovery Time $I_F=10\text{mA}, V_R=6\text{V}, R_L=100\Omega$	trr	4	ns



Fig.1 FORWARD CHARACTERISTICS

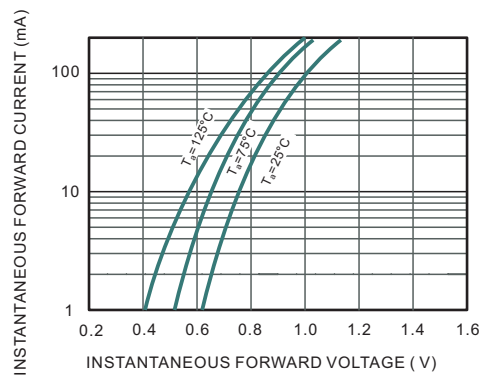


Fig.2 Typical Reverse Characteristics

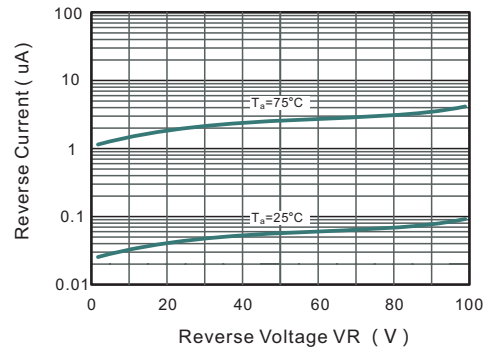
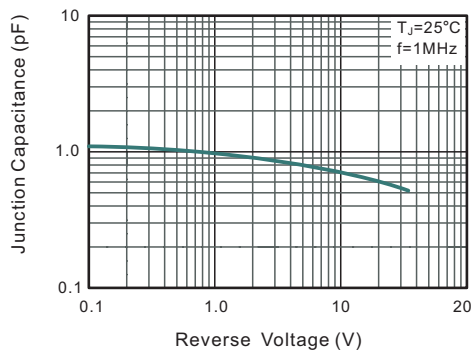


Fig.3 Typical Junction Capacitance

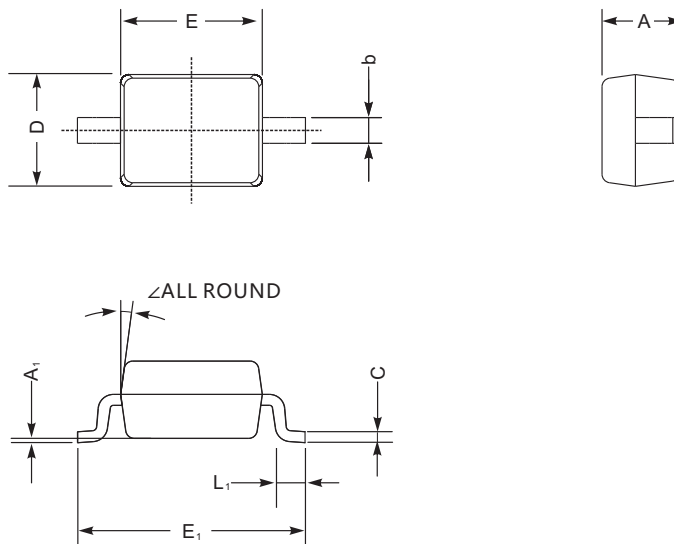




**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

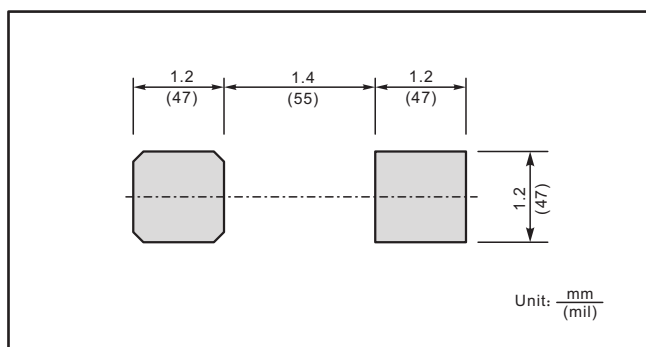
SOD-323



SOD-323 mechanical data

UNIT		A	C	D	E	E <sub>1</sub>	b	L <sub>1</sub>	A <sub>1</sub>	∠
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**



**Marking**

Type number	Marking code
1SS355	A

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