

FEATURES

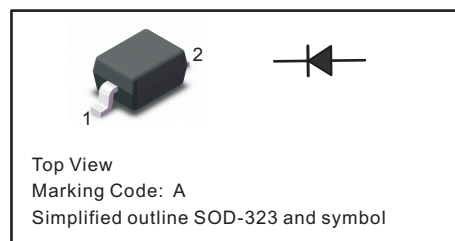
- Small Surface Mounting
- High Speed : $t=1.2\text{ns}$ Typ.
- High Reliability With High Surge Current Handling Capability
- High speed switching

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	μA
Capacitance between terminals $V_R=0.5\text{V}$ $f=1\text{MHz}$	C_T	3	pF
Reverse Recovery Time $I_F=10\text{mA}, V_R=6\text{V}, R_L=100\Omega$	t_{rr}	4	ns

Fig.1 FORWARD CHARACTERISTICS

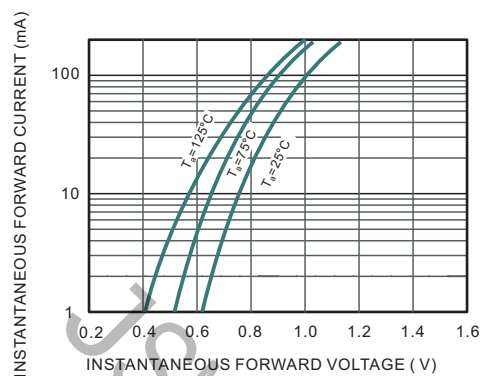


Fig.2 Typical Reverse Characteristics

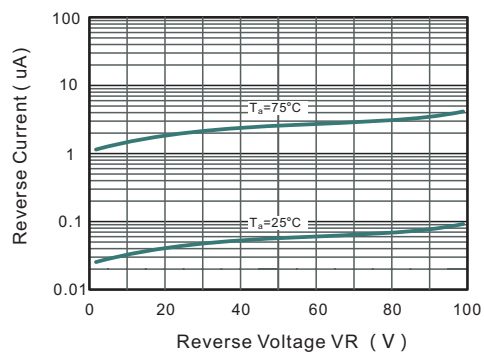
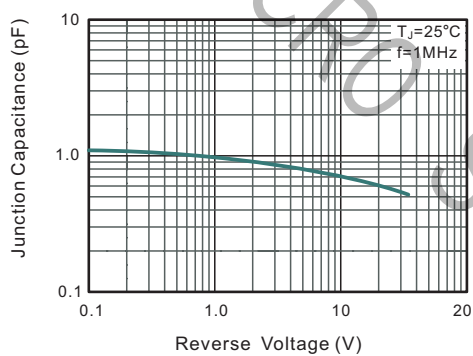


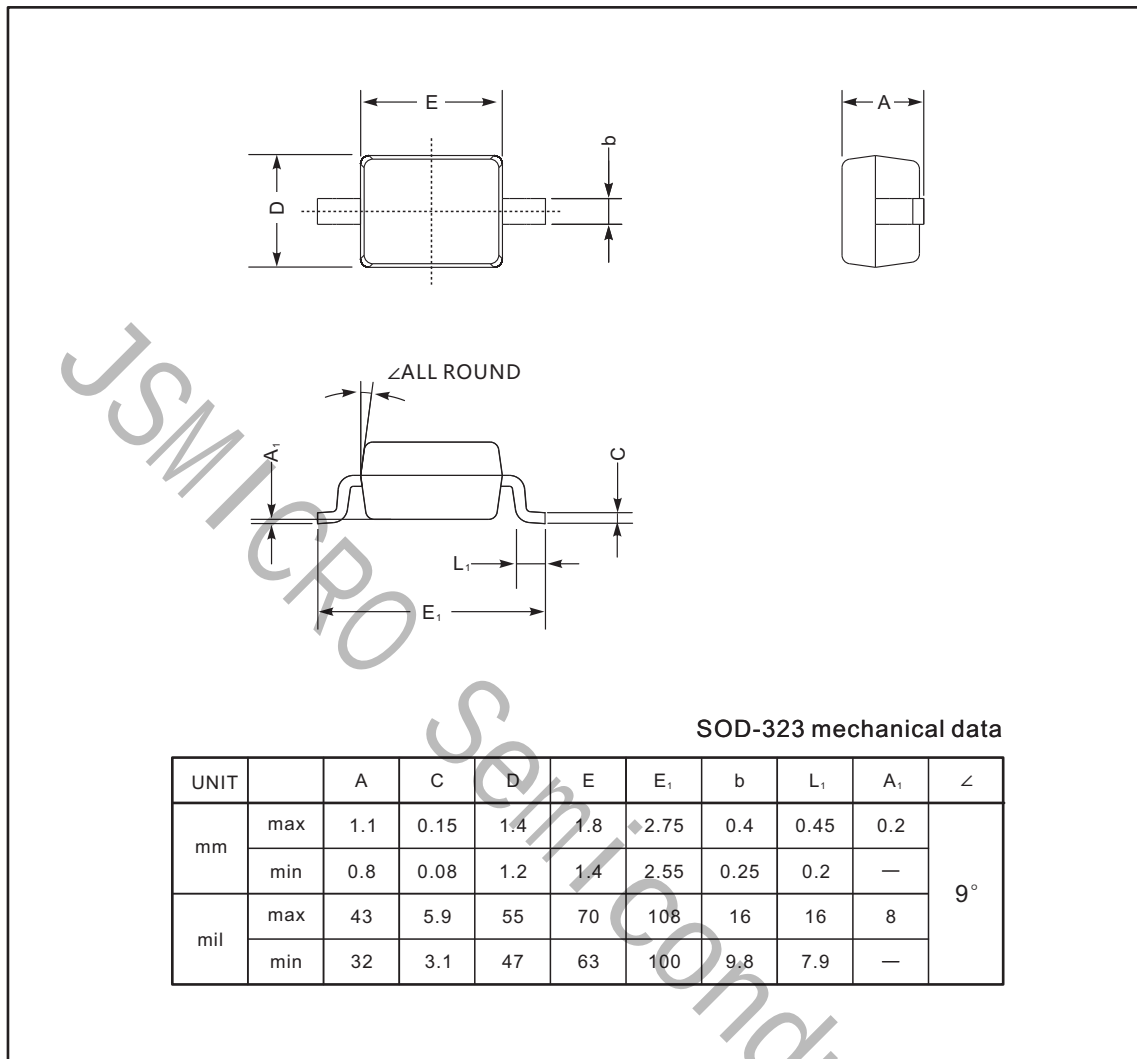
Fig.3 Typical Junction Capacitance



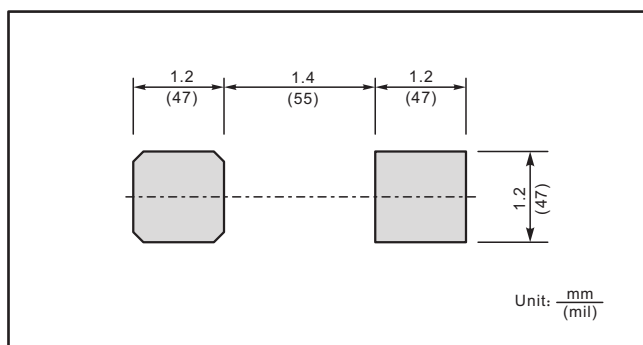
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



The recommended mounting pad size



Marking

Type number	Marking code
1SS355	A