## Features

- Low forward voltage
- Fast Reverse Recovery Time
- Small TotalCapacitance

Application

- Ultra high speed switching

Dimensions and Pin Configuration
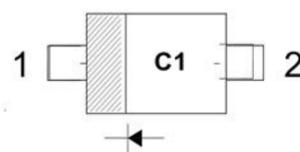
| PIN	DESCRIPTION
1	Cathode
2	Anode

Marking: C1

Absolute Maximum Ratings (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Maximum (Peak) Reverse Voltage	V_{RM}	85	V
Reverse Voltage	V_R	80	V
Average Rectified Forward Current	$I_{F(AV)}$	100	mA
Maximum (Peak) Forward Current	I_{FM}	200	mA
Surge Forward Current (10 ms)	I_{FSM}	1	A
Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	- 55 to + 150	°C

Electrical Characteristics (TA=25°C unless otherwise specified)

Parameter	Symbol	Max.	Unit
Forward Voltage at I_F = 100 mA	V_F	1.2	V
Reverse Current at V_R = 30 V at V_R = 80 V	I_R	0.1 0.5	µA
Total Capacitance at V_R = 0 V, f = 1 MHz	C_T	3	pF
Reverse Recovery Time at I_F = 10 mA to I_R = 1 mA, V_R = 6 V, R_L = 100 Ω	t_{rr}	4	ns

Typical Performance Characteristics (T_A=25℃ unless otherwise Specified)

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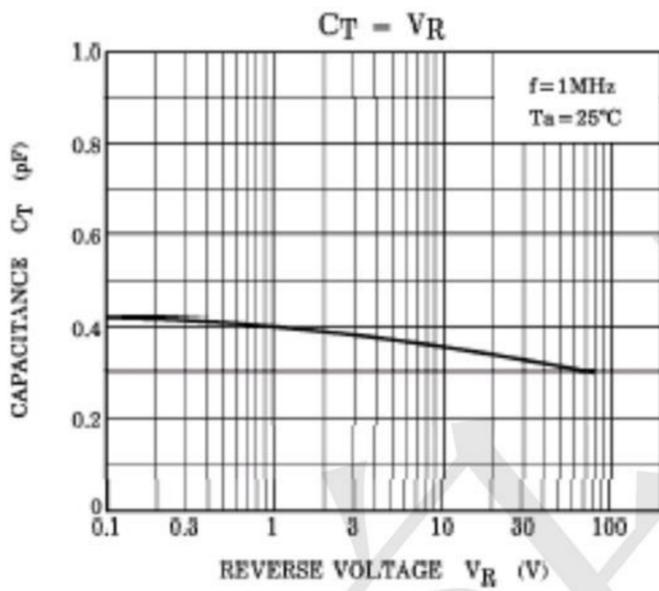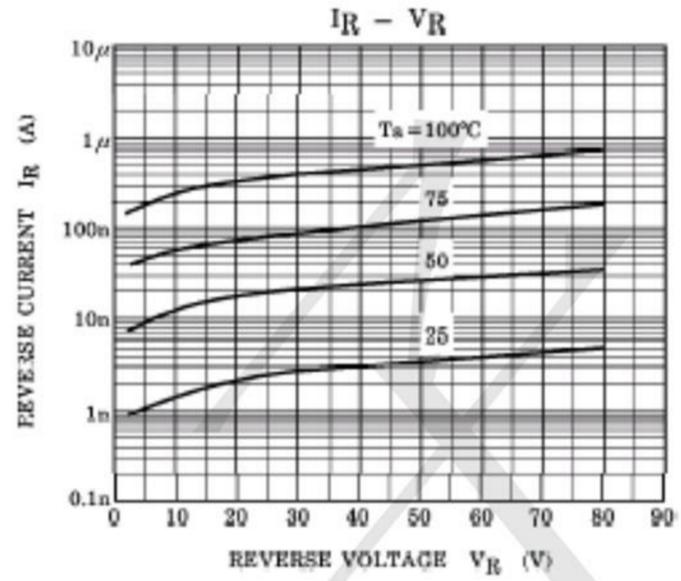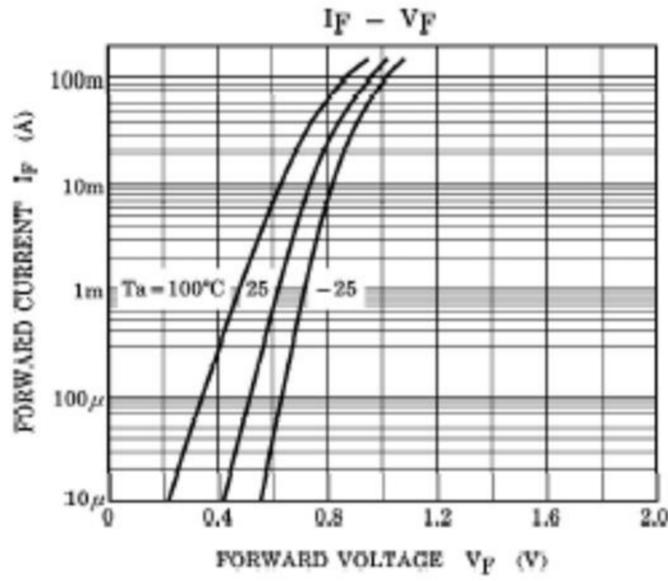
Outline Drawing - SOD-323
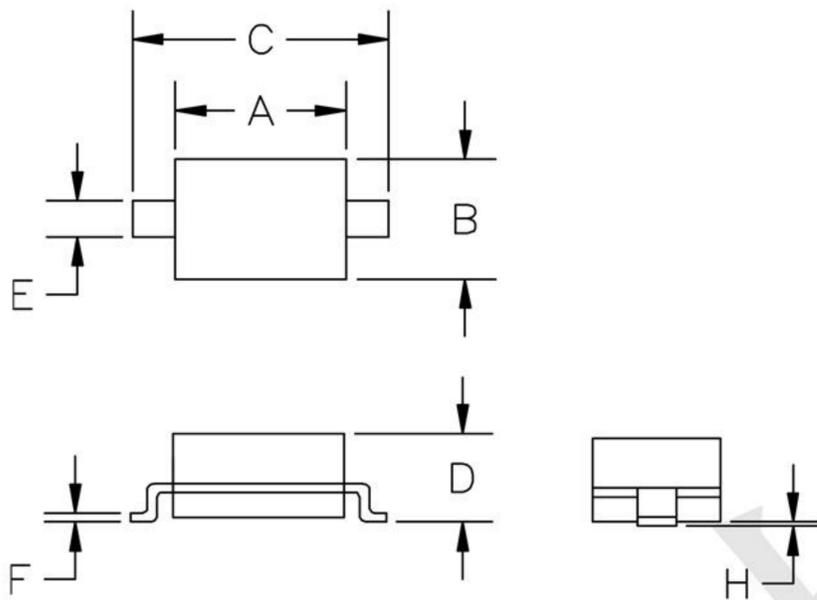
SYM	DIMENSIONS			
	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	1.50	1.80	0.060	0.071
B	1.20	1.40	0.045	0.054
C	2.30	2.70	0.090	0.107
D	-	1.10	-	0.043
E	0.30	0.40	0.012	0.016
F	0.10	0.25	0.004	0.010
H	-	0.10	-	0.004

Land Pattern - SOD-323
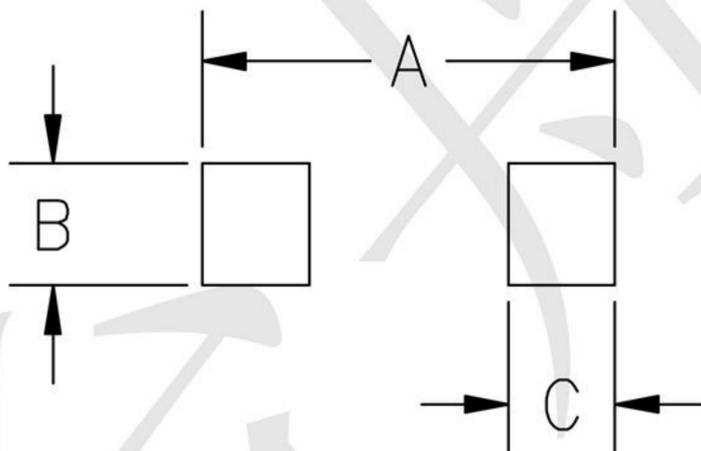
SYM	DIMENSIONS	
	MILLIMETERS	INCHES
A	3.15	0.120
B	0.80	0.031
C	0.80	0.031

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