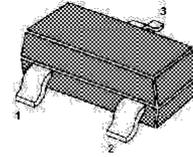
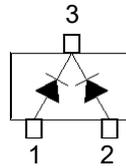


1SS321 Silicon Epitaxial Schottky Barrier Diode

For low voltage switching application

Features

- Low forward voltage
- Low reverse current



Marking Code: "ZC"
SOT-23 Plastic Package

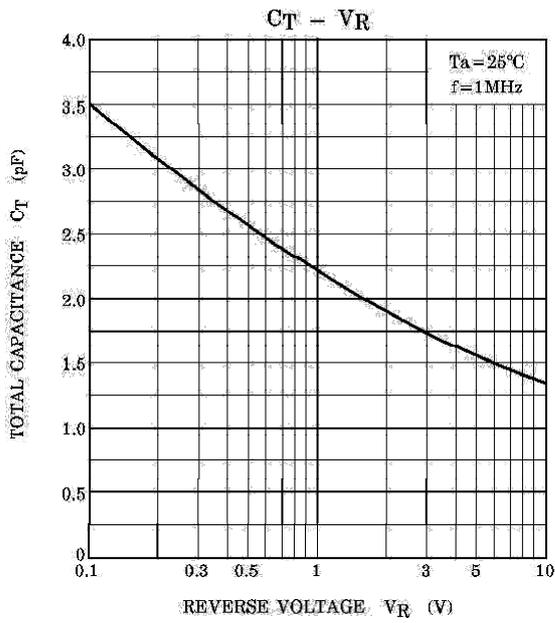
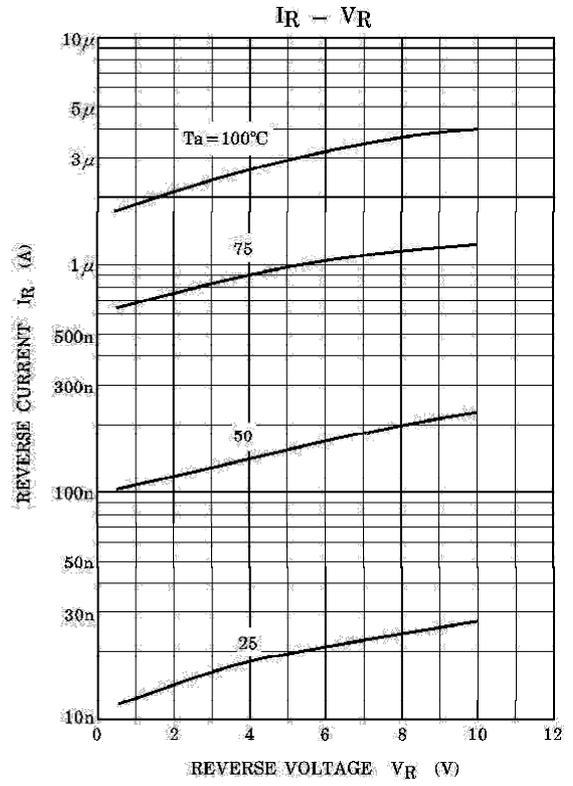
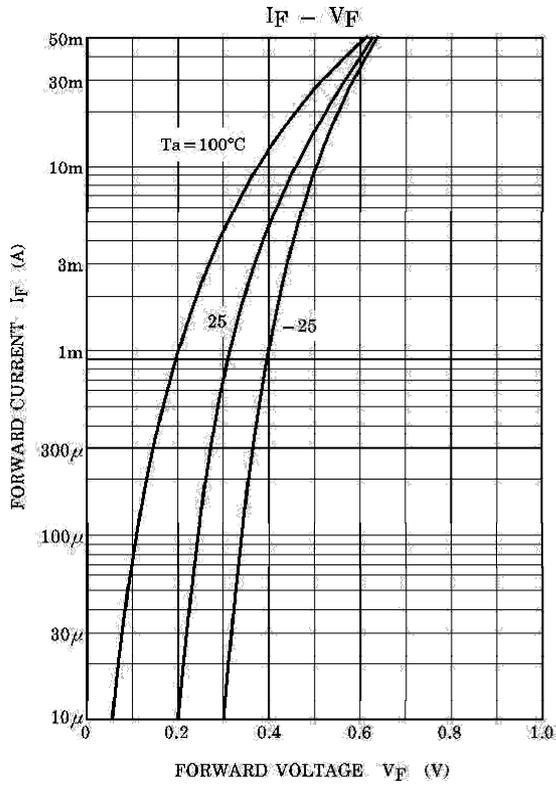
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Maximum Peak Reverse Voltage	V_{RM}	12	V
Reverse Voltage	V_R	10	V
Average Forward Current	$I_{F(AV)}$	50	mA
Maximum Peak Forward Current	I_{FM}	150	mA
Non-Repetitive Peak Forward Surge Current ($t = 10 \text{ ms}$)	I_{FSM}	1	A
Power Dissipation	P_d	150	mW
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 125	$^\circ\text{C}$

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 50 \text{ mA}$	V_F	-	1	V
Reverse Current at $V_R = 10 \text{ V}$	I_R	-	500	nA
Reverse Breakdown Voltage at $I_R = 10 \mu\text{A}$	$V_{(BR)R}$	12	-	V
Total Capacitance at $V_R = 1 \text{ V}$, $f = 1 \text{ MHz}$	C_T	-	20	pF

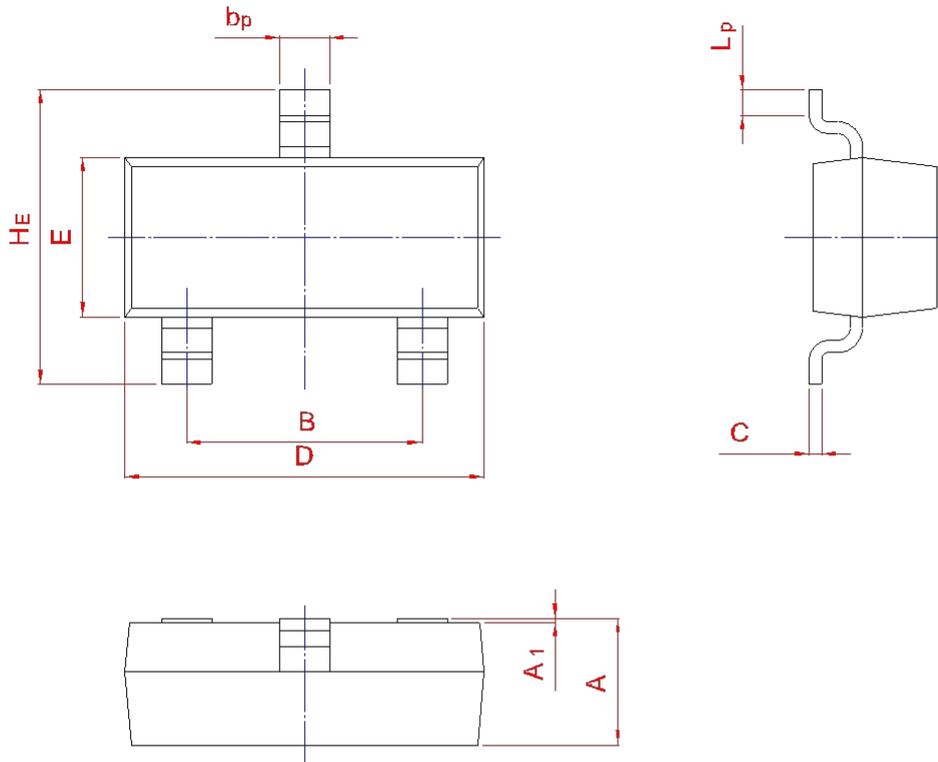
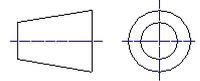
Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	b_p	C	D	E	HE	A_1	L_p
mm	1.40	2.04	0.50	0.19	3.10	1.65	3.00	0.100	0.50
	0.95	1.78	0.35	0.08	2.70	1.20	2.20	0.013	0.20