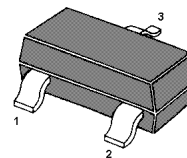
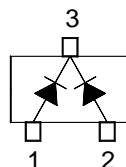


Silicon Epitaxial Schottky Barrier Diode

For low voltage switching application

Features

- Low forward voltage
- Low reverse current



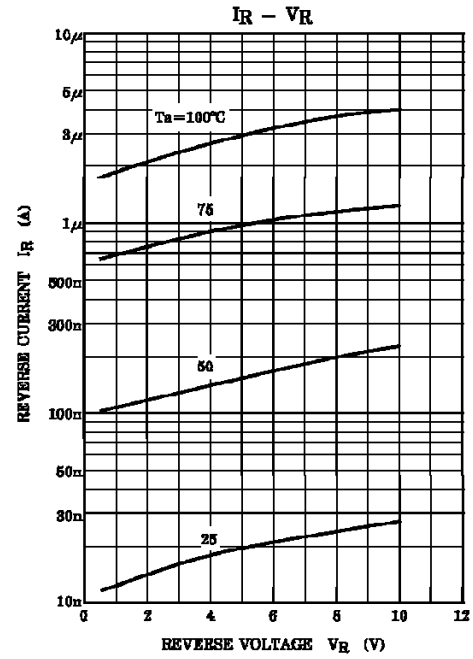
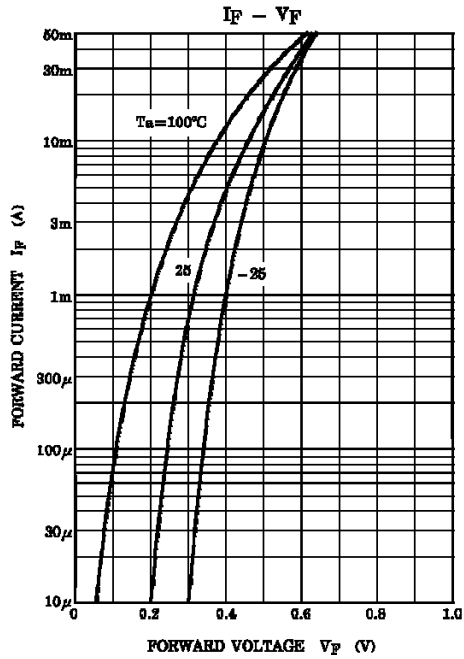
Marking Code: "ZC"
SOT-23 Plastic Package

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

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

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 $I_R = 10\text{ }\mu\text{A}$	$V_{(BR)R}$	12	-	V
Total Capacitance at $V_R = 1\text{ V}$, $f = 1\text{ MHz}$	C_T	-	20	pF

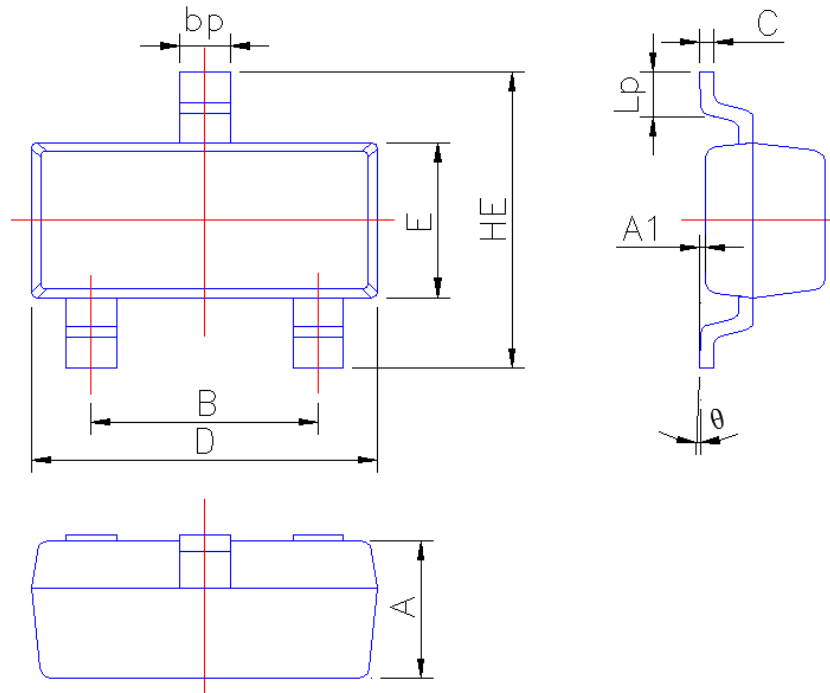




PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



Symbol	Dimension in Millimeters	
	Min	Max
A	0.90	1.10
A1	0.013	0.100
B	1.80	2.00
bp	0.35	0.50
C	0.09	0.150
D	2.80	3.00
E	1.20	1.40
HE	2.20	2.80
Lp	0.20	0.50
θ	0°	5°