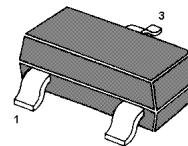
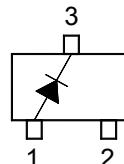


Silicon Epitaxial Planar Diode

Low leakage switching diode

Features

- Plastic SMD package
- Low leakage current



Marking Code: JV
SOT-23 Plastic Package

Application

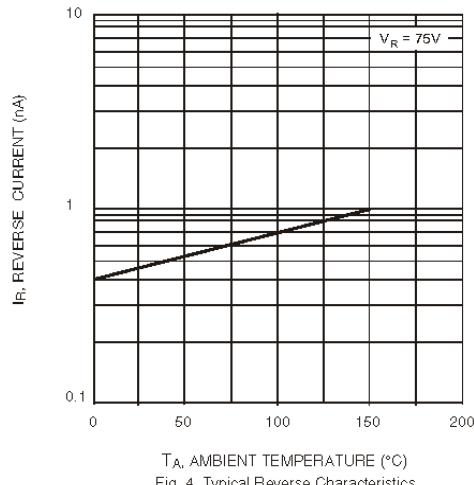
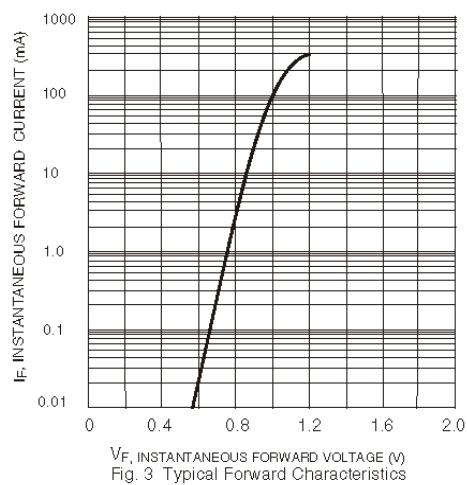
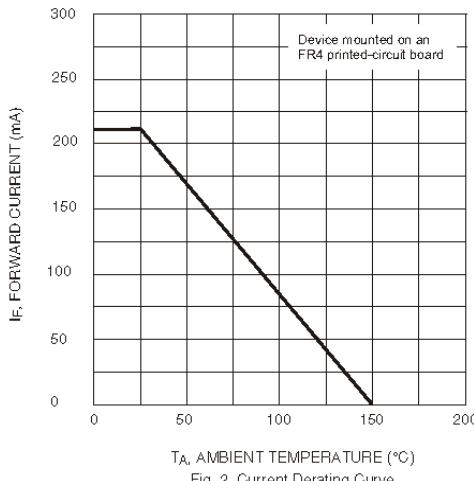
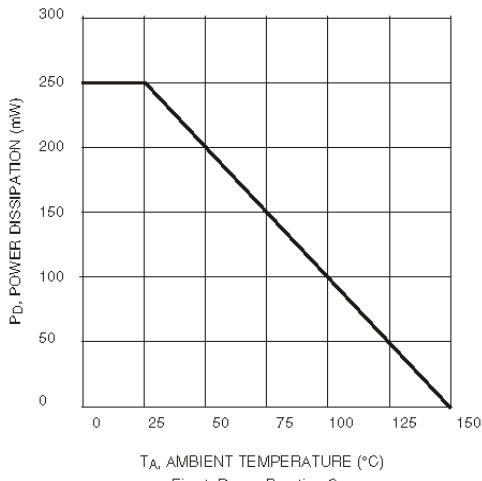
- Low leakage current applications in surface mounted circuits.

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

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	85	V
Continuous Reverse Voltage	V_R	75	V
Continuous Forward Current	I_F	215	mA
Repetitive Peak Forward Current	I_{FRM}	500	mA
Non-Repetitive Peak Forward Surge Current $t = 1 \mu\text{s}$ $t = 1 \text{ ms}$ $t = 1 \text{ s}$	I_{FSM}	4 1 0.5	A
Power Dissipation	P_{tot}	250	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-65 to +150	°C

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

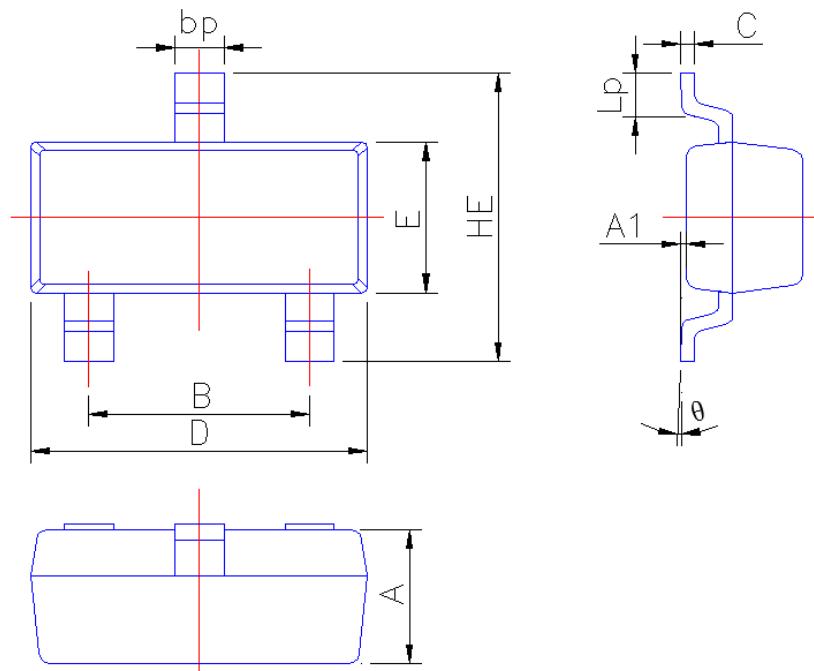
Parameter	Symbol	Typ.	Max.	Unit
Forward Voltage at $I_F = 1 \text{ mA}$ at $I_F = 10 \text{ mA}$ at $I_F = 50 \text{ mA}$ at $I_F = 150 \text{ mA}$	V_F	- - - -	0.9 1 1.1 1.25	V
Reverse Current at $V_R = 75 \text{ V}$ at $V_R = 75 \text{ V}, T_j = 150 \text{ }^\circ\text{C}$	I_R	- -	5 80	nA
Diode Capacitance at $V_R = 0, f = 1 \text{ MHz}$	C_d	2	-	pF
Reverse Recovery Time at $I_F = I_R = 10 \text{ mA}, R_L = 100 \Omega, i_{rr} = 0.1 I_R$	t_{rr}	-	3	μs



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°