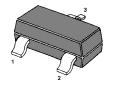
LOW LEAKAGE SWITCHING DIODE

Features

- Plastic SMD package
- Low leakage current
- · High switching speed





Marking Code: JV SOT-23 Plastic Package

Application

· Low leakage current applications in surface mounted circuits.

Absolute Maximum Ratings ($T_a = 25$ °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 μs t = 1 ms t = 1 s	I _{FSM}	4 1 0.5	Α
Power Dissipation		P _{tot}	250	mW
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _S	- 65 to + 150	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 1$ mA at $I_F = 10$ mA at $I_F = 50$ mA at $I_F = 150$ mA	V _F V _F V _F	0.9 1 1.1 1.25	V V V
Reverse Current at V_R = 75 V at V_R = 75 V, T_J = 150 °C	I _R	5 80	nA
Diode Capacitance at f = 1 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

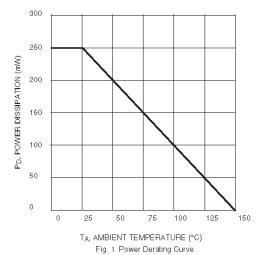


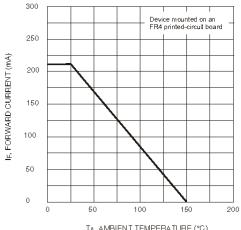




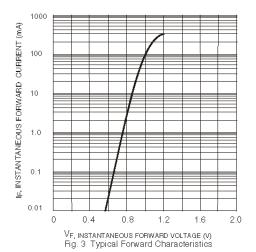


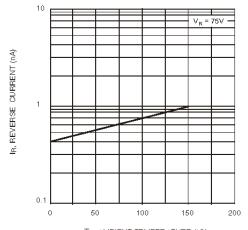
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TA, AMBIENT TEMPERATURE (°C) Fig. 2 Current Derating Curve





T_A, AMBIENT TEMPERATURE (°C) Fig. 4 Typical Reverse Characteristics



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