



### Features

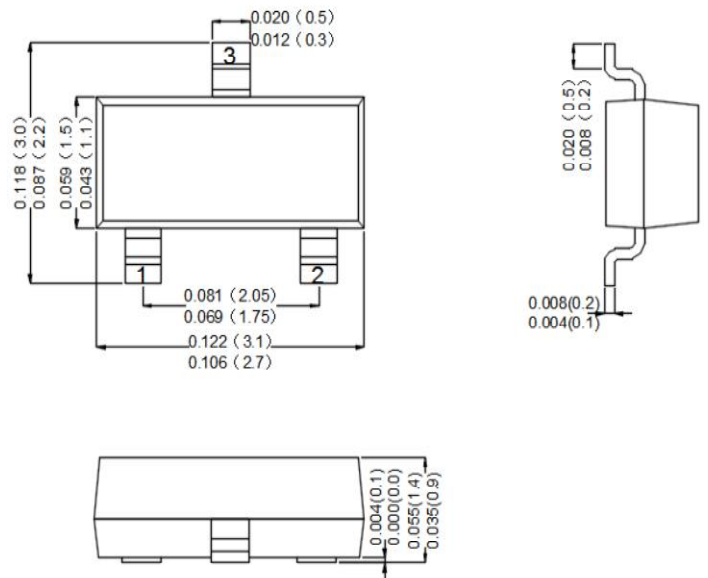
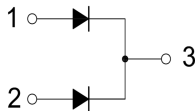
- Plastic SMD package
- Low leakage current

### Application

- Low leakage current applications in surface mounted circuits.

### Mechanical Data

- Case: Molded Plastic, SOT-23
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Plated Leads Solderable per MIL-STD-750, Method-2026.
- Marking: JV
- Mounting Position : Any.
- Equivalent Circuit:



Dimensions in inches and (millimeters)

### Maximum Ratings Maximum Ratings (Rating at 25°C ambient temperature unless otherwise specified.)

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	$I_{FSM}$	4	A
	$t = 1 \mu s$	1	
	$t = 1 ms$	0.5	
	$t = 1 s$		
Power Dissipation	$P_{tot}$	250	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	- 65 to + 150	°C

### Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified.)

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



### Rating And Characteristic Curves

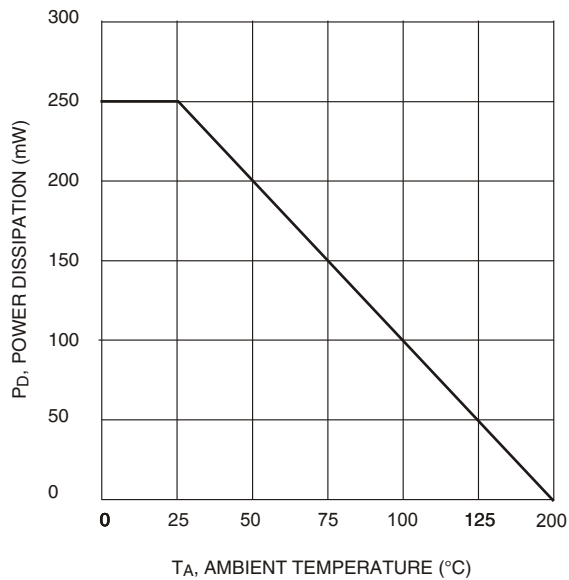


Fig. 1 Power Derating Curve

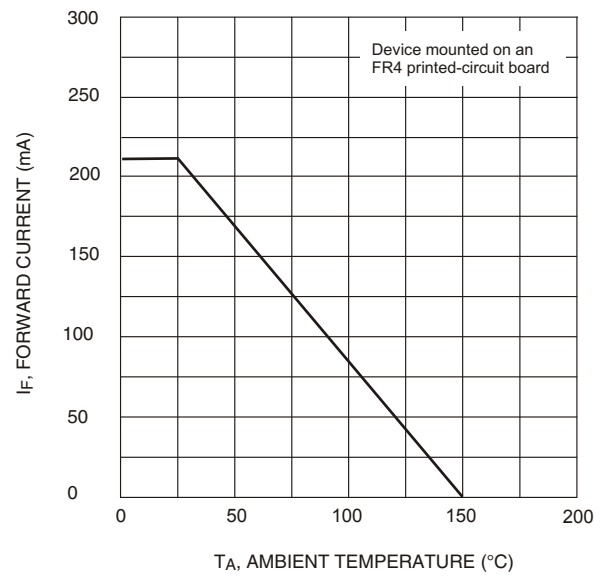


Fig. 2 Current Derating Curve

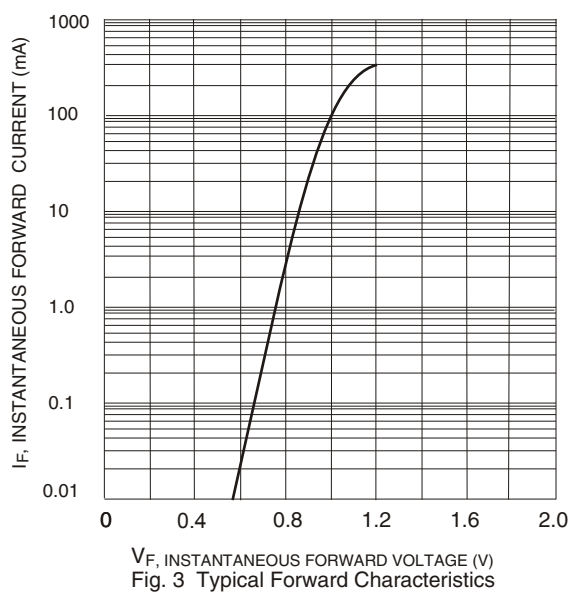


Fig. 3 Typical Forward Characteristics

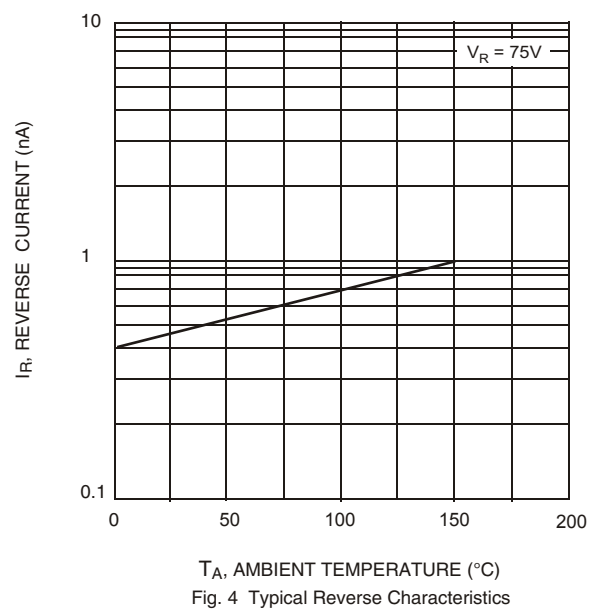


Fig. 4 Typical Reverse Characteristics



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