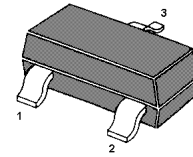
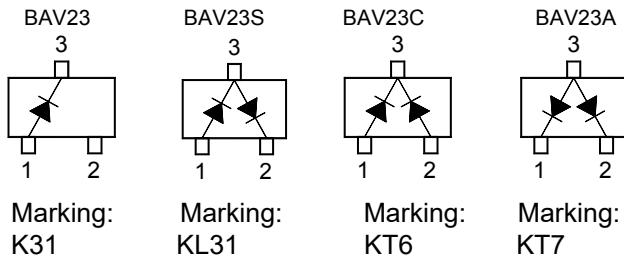


High voltage switching diode



SOT-23 Plastic Package

**Absolute Maximum Ratings (T<sub>a</sub> = 25 °C)**

Parameter	Symbol	Value	Unit
Maximum Repetitive Reverse Voltage	V <sub>RRM</sub>	250	V
Reverse Voltage	V <sub>R</sub>	200	V
Forward Current	I <sub>F(AV)</sub>	400	mA
Repetitive Peak Forward Current	I <sub>FRM</sub>	625	mA
Non-repetitive Peak Forward Surge Current	I <sub>FSM</sub>	1.7 3 9	A
		at t = 10 ms	
		at t = 100 μs	
		at t = 1 μs	
Power Dissipation	P <sub>tot</sub>	350	mW
Thermal Resistance Junction to Ambient Air	R <sub>θJA</sub>	357	°C/W
Operating Junction and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	- 65 to + 150	°C

**Characteristics at T<sub>a</sub> = 25 °**

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I <sub>R</sub> = 100 μA	V <sub>(BR)R</sub>	250	-	V
Forward Voltage at I <sub>F</sub> = 100 mA at I <sub>F</sub> = 200 mA	V <sub>F</sub>	- -	1 1.25	V
Reverse Current at V <sub>R</sub> = 200 V, T <sub>j</sub> = 25 °C at V <sub>R</sub> = 200 V, T <sub>j</sub> = 150 °C	I <sub>R</sub>	- -	100 100	nA μA
Total Capacitance at V <sub>R</sub> = 0 V, f = 1 MHz	C <sub>tot</sub>	-	5	pF
Reverse Recovery Time at I <sub>F</sub> = I <sub>R</sub> = 30 mA, I <sub>tr</sub> = 0.1 × I <sub>R</sub> , R <sub>L</sub> = 100 Ω	t <sub>rr</sub>	-	50	ns

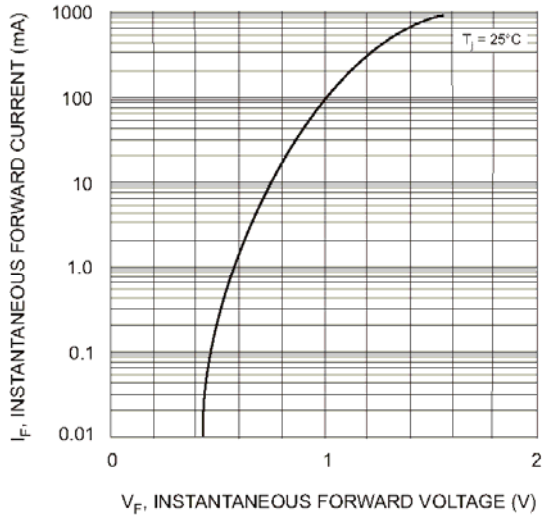


Fig. 1 Forward Characteristics

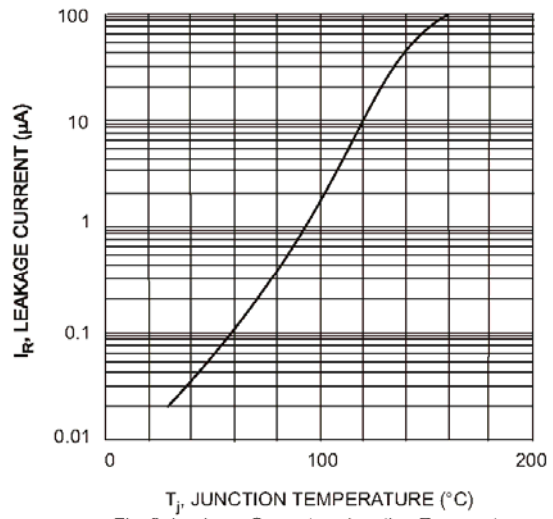
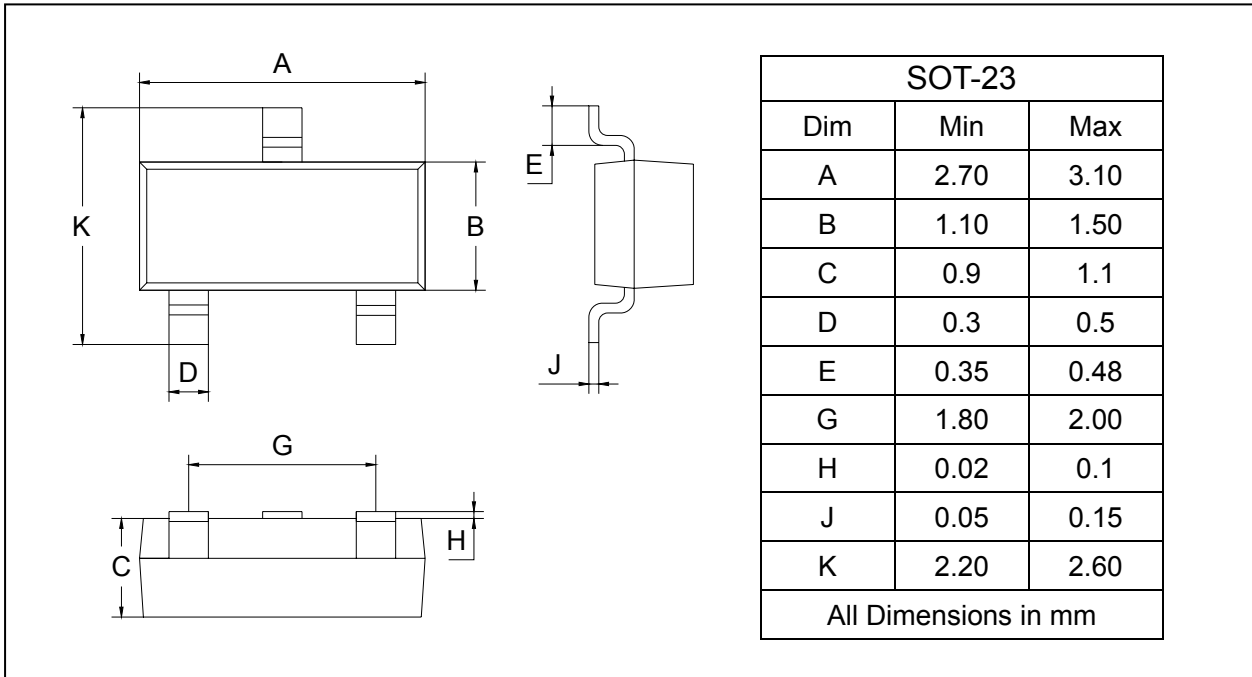


Fig. 2 Leakage Current vs Junction Temperature

**PACKAGE OUTLINE**

Plastic surface mounted package

SOT-23


**SOLDERING FOOTPRINT**
