

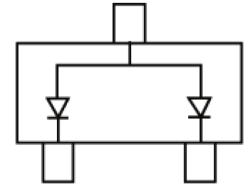


### Features:

- Low current leakage
- Fast switching speed and low cost
- Small outline surface mount package
- Epoxy meets UL 94 V-0 flammability rating
- Moisture sensitivity level 1

**RoHS  
Compliant**

Connection Diagram



SOT-23

## Maximum Ratings and Electrical Characteristics

Rating at 25°C Ambient Temperature Unless Otherwise Specified.

Characteristic	Symbol	Rating	Units
Reverse Voltage	$V_R$	75	V
Forward Continuous Current	$I_F$	250	mA
Power Dissipation	$P_{TOT}$	350	mW
Peak Forward Surge Current @ $t = 1s$ , Non-Repetitive	$I_{FSM}$	1	A
Maximum Instantaneous Forward Voltage $I_{FM} = 10mA$ ; $T_J = 25^\circ C$ (Notes 1 )	$V_F$	855	mV
Maximum DC Reverse Current $V_R = 75V$ @ $T_J = 25^\circ C$ at Rated DC Blocking Voltage @ $T_J = 150^\circ C$	$I_R$	2.5 50	$\mu A$
Typical Junction Capacitance Measured at 1.0MHz, $V_R = 0V$	$C_J$	2	pF
Max. Thermal Resistance Junction To Ambient	$R_{\theta JA}$	357	k/W
Reverse Recovery Time $I_F = 10mA$ $V_R = 0V$ $R_L = 500\Omega$	$T_{rr}$	4	nS
Operating Temperature Range	$T_J$	-55 to +150	$^\circ C$
Storage Temperature Range	$T_{STG}$	-55 to +150	$^\circ C$

Notes: 1. Pulse test: Pulse width 300 $\mu$  sec, Duty cycle 2%.  
2. The typical data above is for reference only

## Rating and Characteristic Curves

Fig. 1 Forward Characteristics

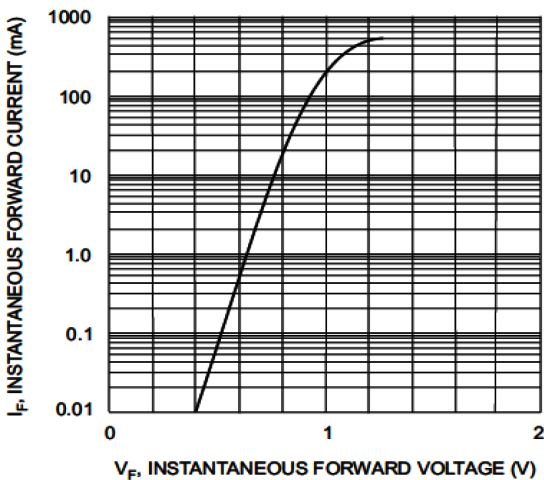
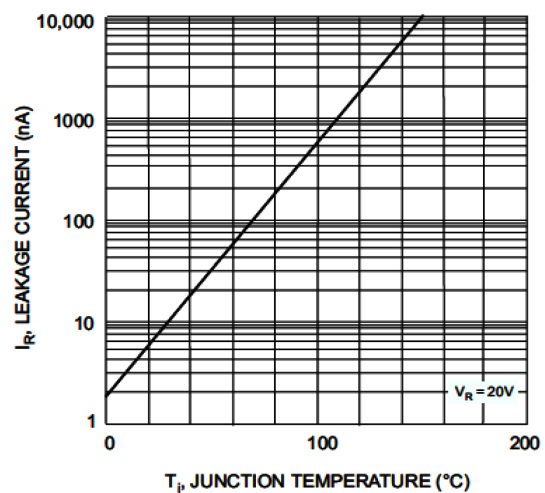
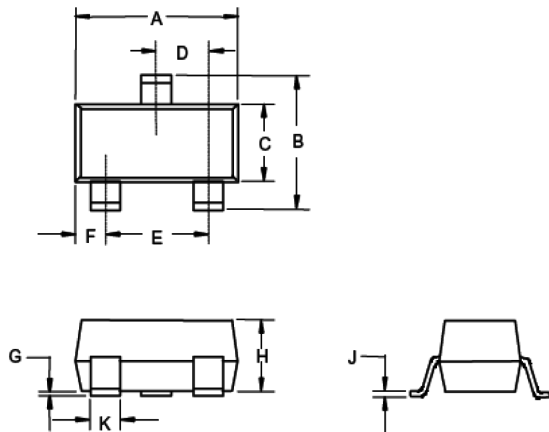


Fig. 2 Leakage Current vs Junction Temperature



## Dimension:



SOT-23		
Dim.	Min.	Max.
A	2.8	3.04
B	2.1	2.64
C	1.2	1.4
D	0.89	1.03
E	1.78	2.05
F	0.45	0.6
G	0.013	0.1
H	0.89	1.12
J	0.085	0.18
K	0.37	0.51

Dimensions : Millimetres

## Part Number Table

Description	Part Number
Dual Switching Diode	BAW56+

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