

RoHS
Compliant



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

Maximum Ratings and Electrical Characteristics

Rating at 25°C Ambient Temperature Unless Otherwise Specified.

Characteristic	Symbol	Rating	Units
Reverse Voltage	V_R	75	V
Average Rectified Output Current	I_o	150	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	μA
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 μ sec, Duty cycle 2%.
2. The typical data above is for reference only

Rating and Characteristic Curves

Fig. 1 Forward Characteristics

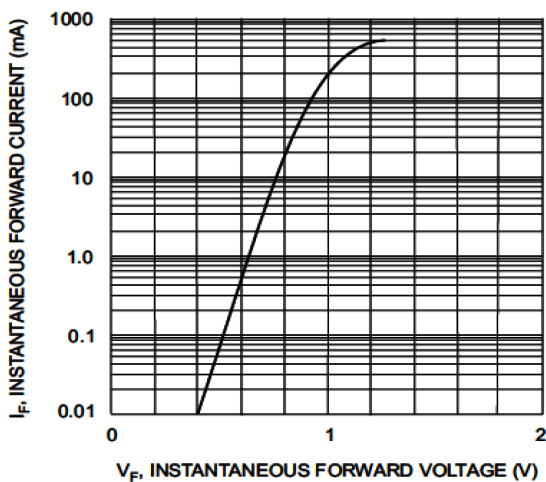
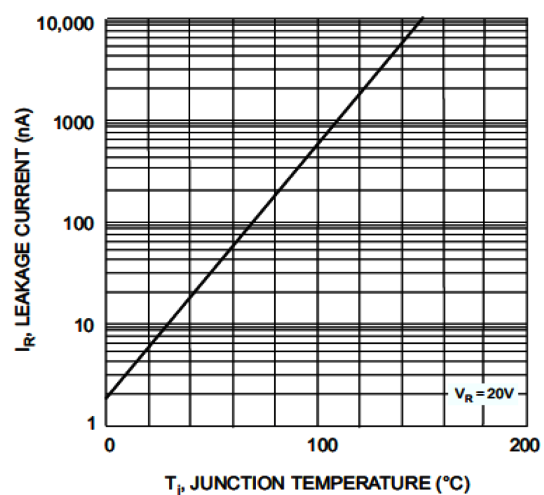
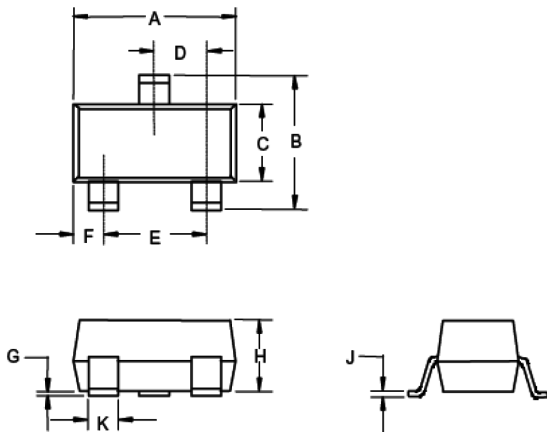


Fig. 2 Leakage Current vs Junction Temperature



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	BAV70+

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