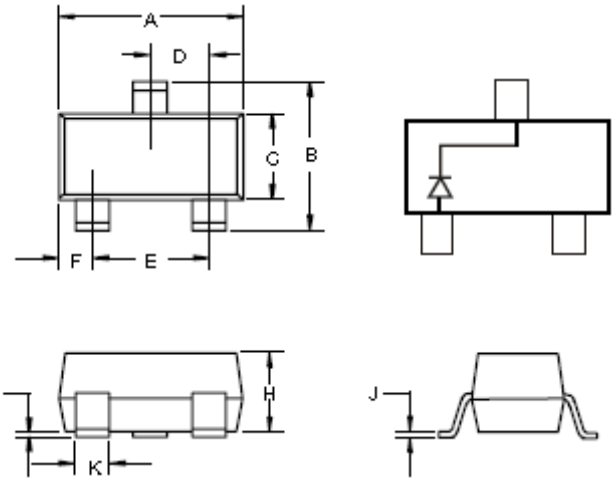
BAS16

SWITCHING DIODE

SOT-23



FEATURES

- Low Current Leakage
- Low Cost
- Small Outline Surface Mount Package
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Marking :A6

Maximum Ratings

- Operating Temperature: -55℃ to +150℃
- Storage Temperature: -55℃ to +150℃
- Maximum Thermal Resistance; 357K/W Junction To Ambient

DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.110	.120	2.80	3.04	
B	.083	.098	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Electrical Characteristics @ 25 C Unless Otherwise Specified

Parameter	Symbol	Limits	Test conditions	Unit
Reverse Voltage	V_R	75		V
Peak Reverse Voltage	V_{RM}	100		V
Peak Forward Current	I_F	300		mA
Power Dissipation	P_{TOT}	350		mW
Peak Forward Surge Current	I_{FSM}	1	t=1.0S,None Repet	A
Maximum Instantaneous Forward Voltage	V_F	1.25	I_{FM}= 150mA;T_J = 25℃*	V
Maximum DCReverse Current AtRated DC BlockingVoltage	I_R	1	V_R=75Volts T_J = 25°C	μA
		50	V_R=75Volts T_J = 150°C	
Typical Junction Capacitance	C_J	2	Measured at 1.0MHz, V_R=0V	pF
Reveres Recovery Time	T_{rr}	4	I_F=10mA, V_R= 6.0V, R_L=100Ω	nS

*Pulse test: Pulse width 300 μsec, Duty cycle 2%

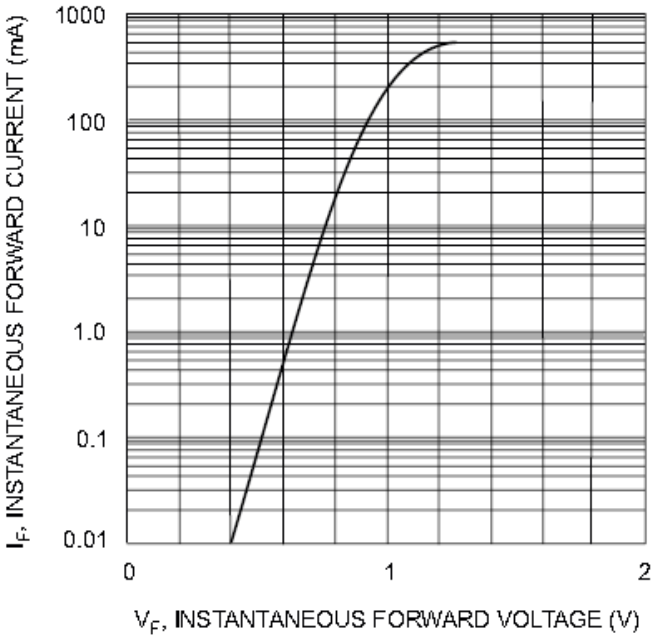


Fig. 1 Forward Characteristics

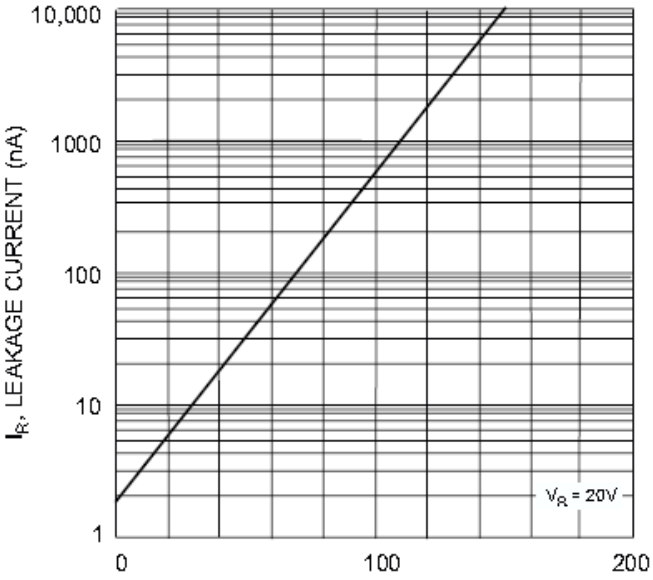


Fig. 2 Leakage Current vs Junction Temperature