

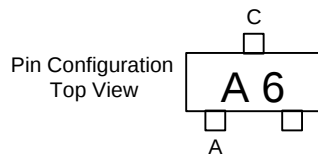


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BAS16

Features

- Low Current Leakage
- Low Cost
- Small Outline Surface Mount Package

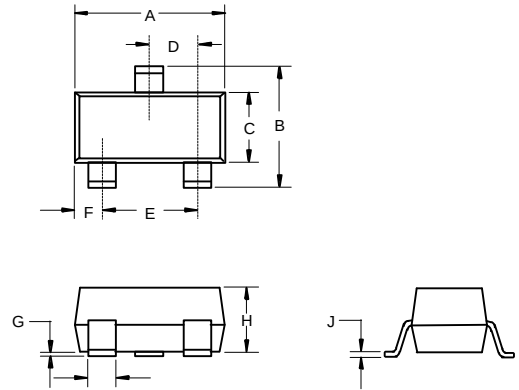


350mW 100Volt Switching Diode

Maximum Ratings

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

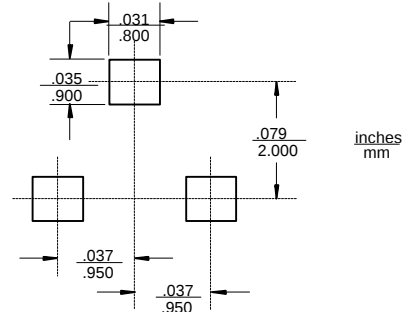
SOT-23



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
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	

Suggested Solder Pad Layout



Electrical Characteristics @ 25°C Unless Otherwise Specified

Reverse Voltage	V_R	75V	
Peak Reverse Voltage	V_{RM}	100V	
Peak Forward Current	I_F	300mA	
Power Dissipation	P_{TOT}	350mW	
Peak Forward Surge Current	I_{FSM}	1A	$t=1s$, None Repet.
Maximum Instantaneous Forward Voltage	V_F	1.25V	$I_{FM} = 150mA$; $T_J = 25^\circ C^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	1 μA 50 μA	$V_R = 75Volts$ $T_J = 25^\circ C$ $T_J = 150^\circ C$
Typical Junction Capacitance	C_J	2pF	Measured at 1.0MHz, $V_R = 0V$
Reverse Recovery Time	T_{rr}	4ns	$I_F = 10mA$ $V_R = 6.0V$ $R_L = 100\Omega$

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

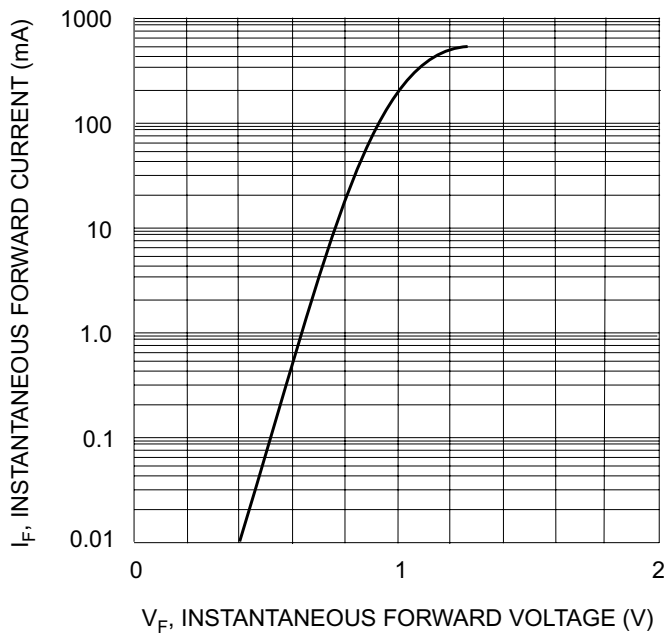


Fig. 1 Forward Characteristics

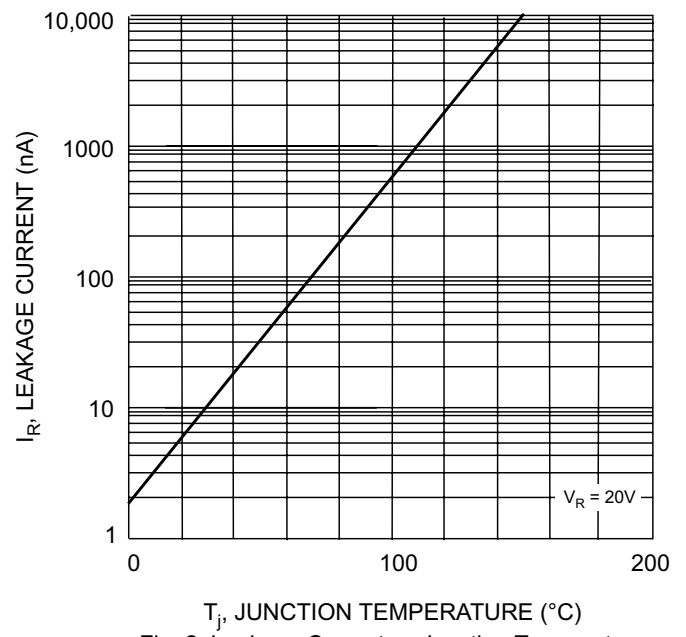


Fig. 2 Leakage Current vs Junction Temperature