Micro Commercial Components

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BAS16

350mW 100Volt Switching Diode

Features

- Low Current Leakage
- Low Cost
- Small Outline Surface Mount Package
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking :A6
- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

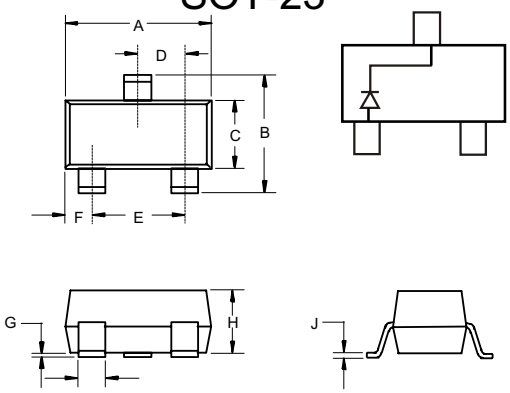
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 357K/W Junction To Ambient

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°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	1µA 50µA	V_R=75Volts T_J = 25°C T_J = 150°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=100Ω

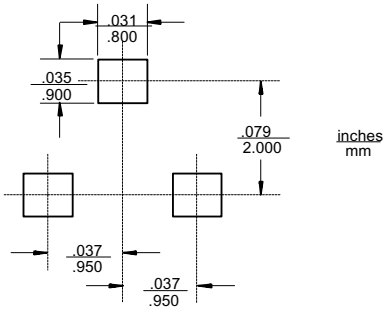
*Pulse test: Pulse width 300 µsec, Duty cycle 2%

SOT-23



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	

Suggested Solder Pad Layout



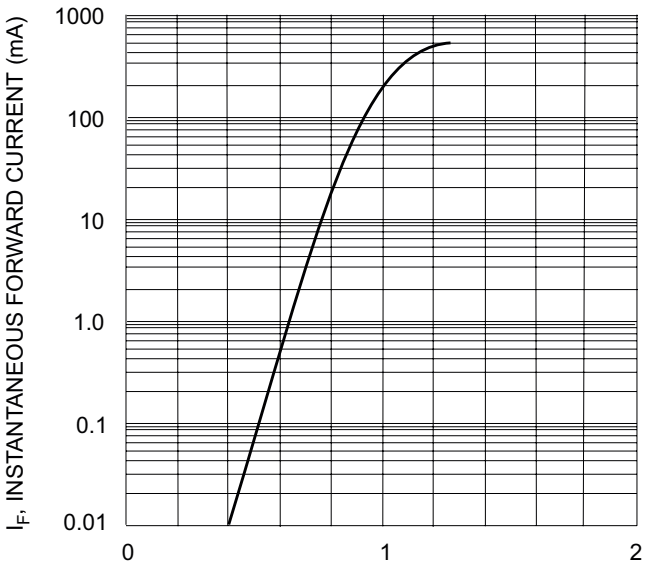


Fig. 1 Forward Characteristics

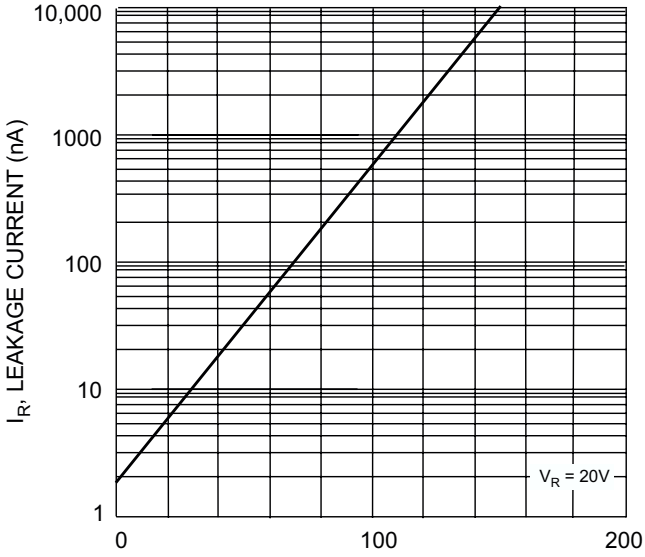


Fig. 2 Leakage Current vs Junction Temperature

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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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