

MCC

Micro Commercial Components

Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

Features

- Low Current Leakage
- Low Cost
- Small Outline Surface Mount Package
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Marking: A1/JC

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

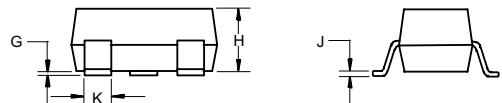
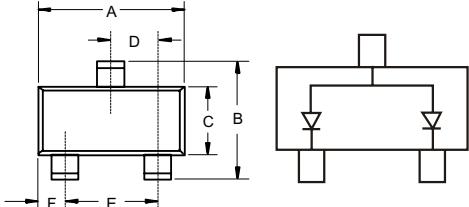
Reverse Voltage	V_R	75V	
Forward Continuous Current	I_F	250mA	
Power Dissipation	P_{TOT}	350mW	
Peak Forward Surge Current	I_{FSM}	1.0A	$t=1s$, Non-Repetitive
Maximum Instantaneous Forward Voltage	V_F	855mV	$I_{FM} = 10mA$; $T_J = 25^\circ C$ *
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	$2.5\mu A$ $50\mu A$	$V_R = 75$ Volts $T_J = 25^\circ C$ $T_J = 150^\circ C$
Typical Junction Capacitance	C_J	2pF	Measured at 1.0MHz, $V_R = 0V$
Reverse Recovery Time	T_{rr}	4nS	$I_F = 10mA$ $V_R = 0V$ $R_L = 500\Omega$

*Pulse test: Pulse width 300 μ sec, Duty cycle 2%

BAW56

**350mW 75Volt
Dual Switching Diode**

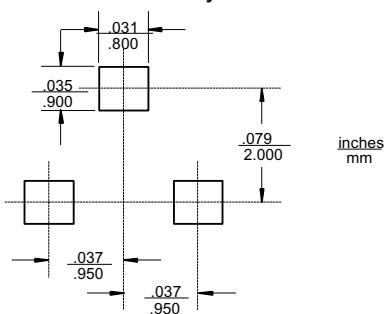
SOT-23



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



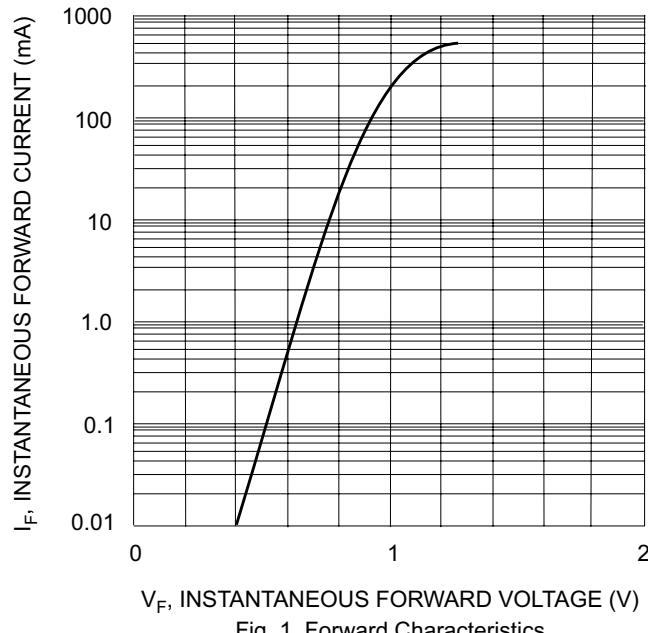
www.mccsemi.com

BAW56

•M•C•C•

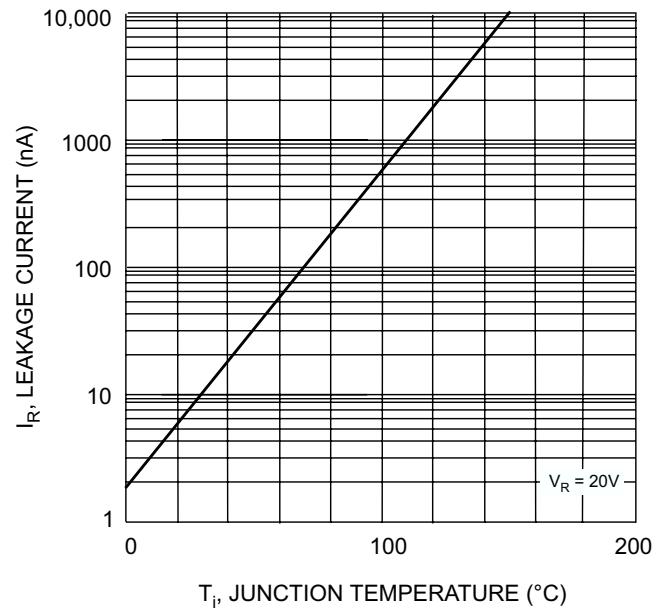
TM

Micro Commercial Components



V_F , INSTANTANEOUS FORWARD VOLTAGE (V)

Fig. 1 Forward Characteristics



T_J , JUNCTION TEMPERATURE (°C)

Fig. 2 Leakage Current vs Junction Temperature



TM

Micro Commercial Components

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes .

Micro Commercial Components Corp. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp.* and all the companies whose products are represented on our website, harmless against all damages.

*****APPLICATIONS DISCLAIMER*****

Products offer by *Micro Commercial Components Corp.* are not intended for use in Medical, Aerospace or Military Applications.