

M·C·C·

Micro Commercial Components



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BAW56

Features

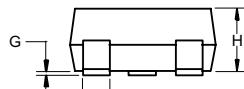
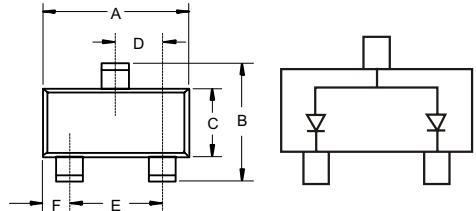
- Low Current Leakage
- Low Cost
- Small Outline Surface Mount Package
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: A1/JC
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

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

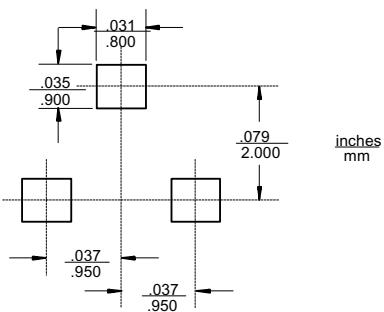
Reverse Voltage	V_R	75V	
Forward Continuous Current	I_F	250mA	
Power Dissipation	P_{TOT}	350mW	
Peak Forward Surge Current	I_{FSM}	1.0A	$t=1s$, Non-Repetitive
Maximum Instantaneous Forward Voltage	V_F	855mV	$I_{FM} = 10mA$; $T_J = 25^\circ C^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	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	$I_F = 10mA$ $V_R = 0V$ $R_L = 500\Omega$

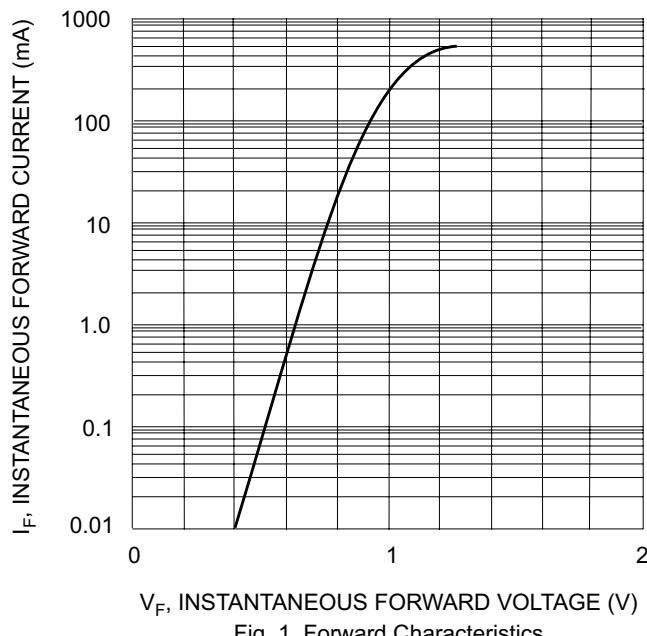
*Pulse test: Pulse width 300 μ sec, Duty cycle 2%**350mW 75Volt****Dual Switching Diode****SOT-23**

DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.104	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	

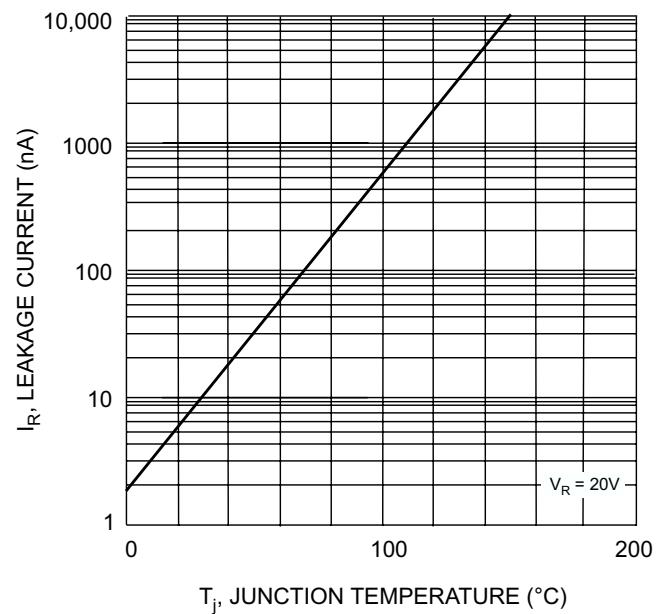
Suggested Solder Pad Layout

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V_F , INSTANTANEOUS FORWARD VOLTAGE (V)

Fig. 1 Forward Characteristics



T_J , JUNCTION TEMPERATURE (°C)

Fig. 2 Leakage Current vs Junction Temperature

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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