

Features

- Low Current Leakage
- Low Cost
- Small Outline Surface Mount Package
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction to Ambient

MCC Part Number	Device Marking	Reverse Voltage V_R
BAW56	A1	100V

Forward Continuous Current	I_F	250mA	
Peak Forward Surge Current	I_{FSM}	4A 1A	$t=1\mu s$, Non-Repetitive $t=1s$, Non-Repetitive
Power Dissipation	P_{TOT}	350mW	

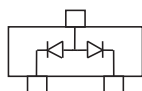
Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Forward Voltage	V_F	0.855V	$I_{FM}=10mA, T_J=25^\circ C$ (Note 2)
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	0.5 μA 50 μA	$V_R=100V, T_J=25^\circ C$ $V_R=75V, T_J=150^\circ C$
Typical Junction Capacitance	C_J	2.0pF	$V_R=0.0V, f=1.0MHz$
Reverse Recovery Time	t_{rr}	4.0ns	$I_F=10mA,$ $V_R=0V, R_L=50\Omega$

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

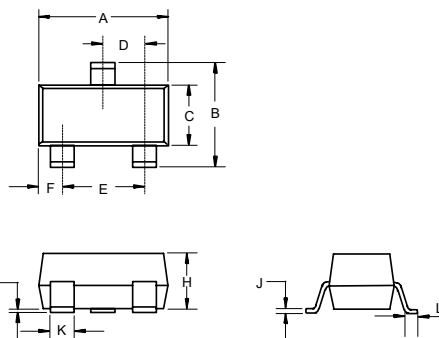
2. Pulse test: Pulse width 300 μs , Duty cycle 2%

Internal Structure



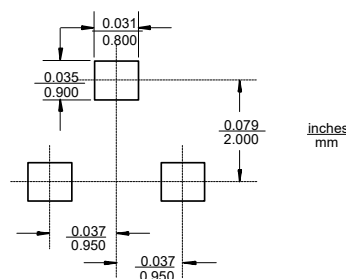
350mW 100Volt Dual Switching Diode

SOT-23



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.110	0.120	2.80	3.04	
B	0.083	0.104	2.10	2.64	
C	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
H	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.014	0.020	0.35	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout



Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

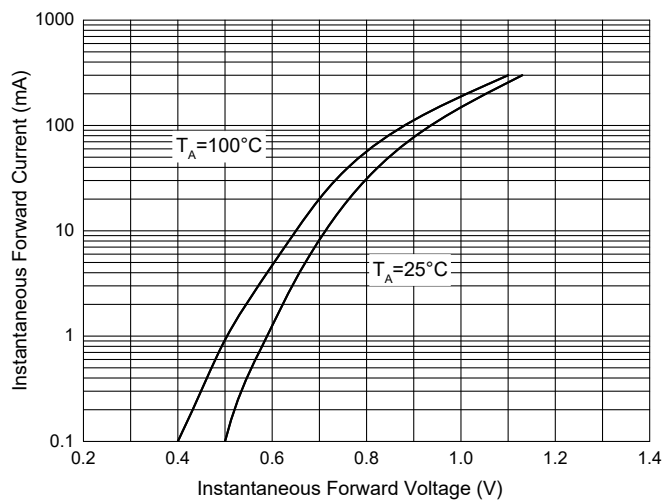


Fig. 2 - Typical Reverse Leakage Characteristics

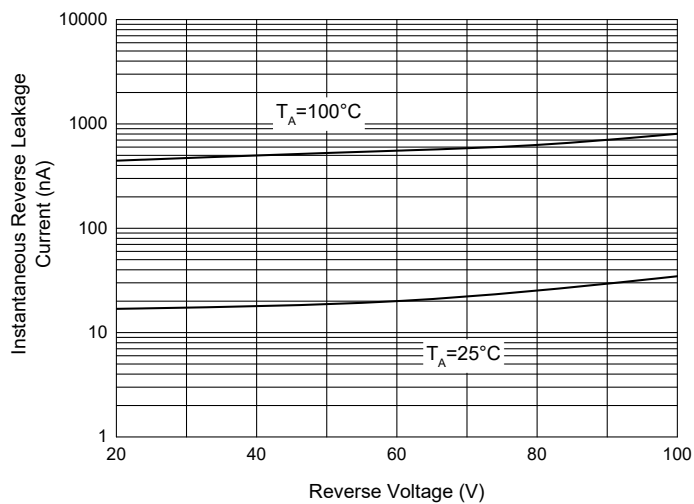
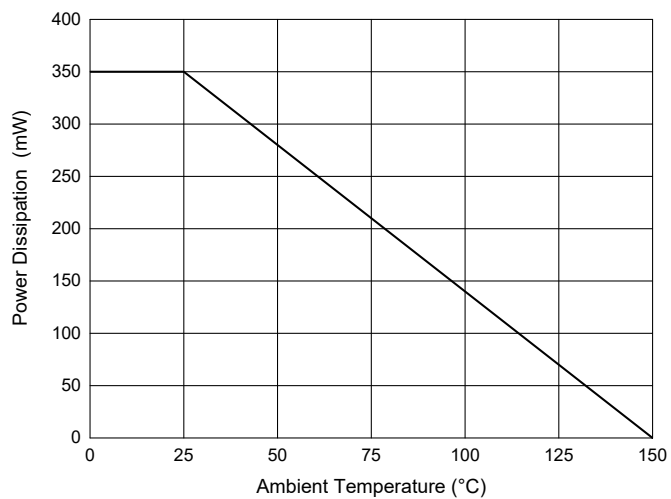


Fig. 3 - Power Derating Curve



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel
Part Number-13P	Tape&Reel: 10Kpcs/Reel

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