

Features

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

Maximum Ratings

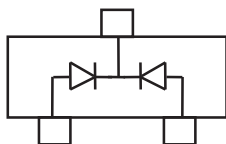
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction to Ambient

MCC Part Number	Device Marking
BAV70	A4

Parameter	Symbol	Value
Reverse Voltage	V_R	100V
Peak Reverse Voltage	V_{RM}	100V
Working Peak Reverse Voltage	V_{RWM}	100V
RMS Reverse Voltage	$V_{R(RMS)}$	71V
Average Forward Current	$I_{F(AV)}$	215mA
Repetitive Peak Forward Current	I_{FRM}	450mA
Peak Forward Surge Current	I_{FSM}	t=0.1ms 10A
		t=1ms 4.5A
		t=10ms 2.5A
		t=100ms 1.5A
		t=1s 1A
Power Dissipation	P_{TOT}	350mW

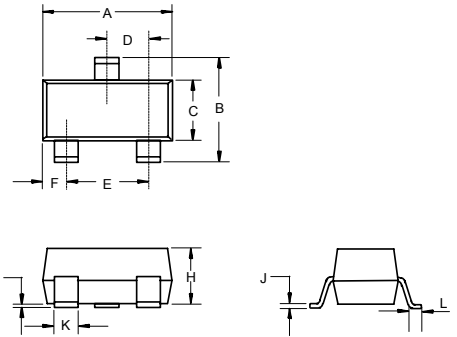
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

**Pin Configuration
Top View**



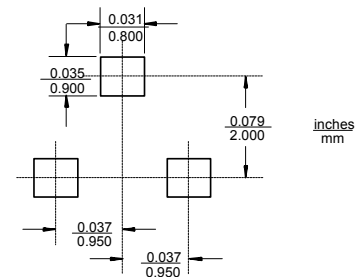
**350mW 100 Volt
Dual
Switching Diode**

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



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Maximum Instantaneous Forward Voltage	V_F	$I_{FM}=1mA$			0.715	V
		$I_{FM}=10mA$			0.855	V
		$I_{FM}=50mA$			1	V
		$I_{FM}=100mA$			1.25	V
Maximum DC Reverse Current	I_R	$V_R=75V, T_J=25^{\circ}C$			1	μA
		$V_R=75V, T_J=150^{\circ}C$			50	μA
Junction Capacitance	C_J	$V_R = 0V, f = 1MHz$		2		pF
Reverse Recovery Time	t_{rr}	$I_F=10mA,$ $V_R= 6.0V, R_L=100\Omega$			4	ns

* Pulse Test: Pulse Width 300 μ sec, Duty Cycle 2%

Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

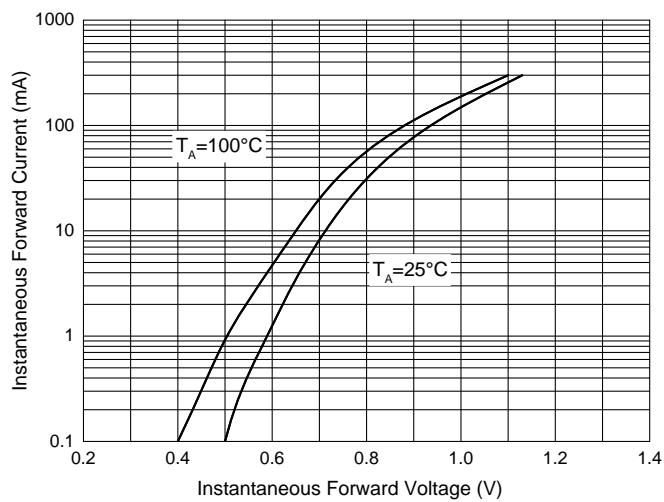


Fig. 2 - Typical Reverse Leakage Characteristics

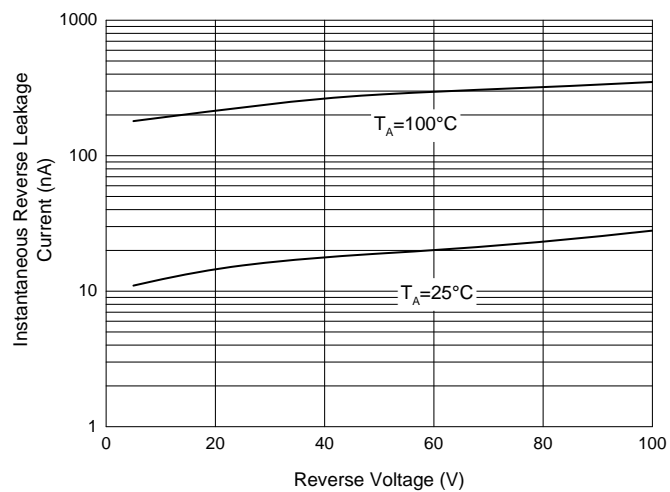
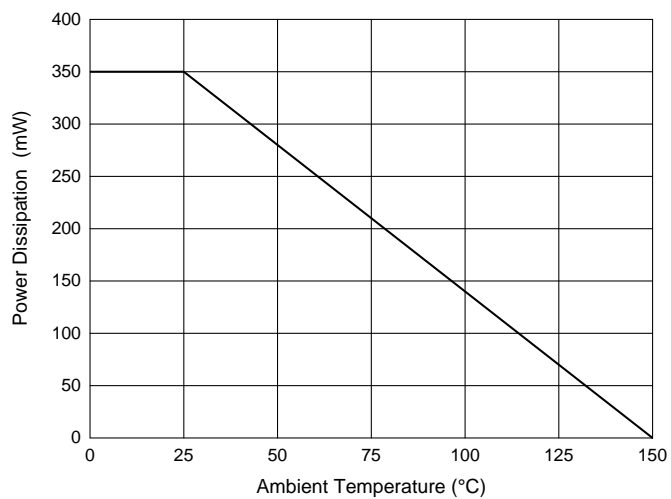


Fig. 3 - Power Derating Curve



Ordering Information

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

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