

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

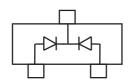
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction to Ambient

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 t=0.1ms t=1ms t=10ms t=100ms t=1s	I _{FSM}	10A 4.5A 2.5A 1.5A 1A	
Power Dissipation	P _{TOT}	350mW	

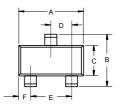
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

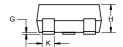
Pin Configuration Top View



350mW 100 Volt Dual Switching Diode

SOT-23

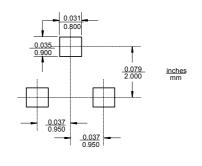






DIMENSIONS					
DIM INCHES		HES	MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
Е	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.014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

Suggested Solder Pad Layout





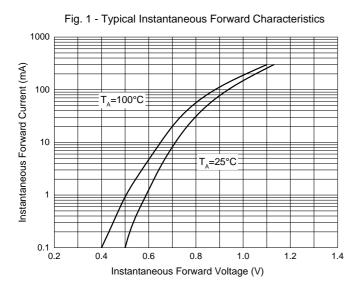
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

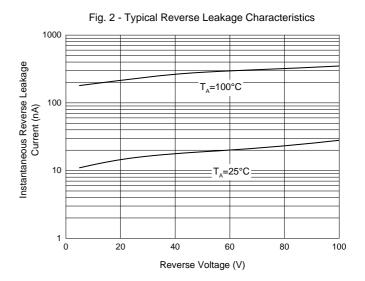
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Maximum Instantaneous Forward Voltage	V	I _{FM} =1mA			0.715	V
		I _{FM} =10mA			0.855	V
	V _F	I _{FM} =50mA			1	V
		I _{FM} =100mA			1.25	V
Maximum DC Reverse Current		V _R =75V, T _J =25°C			1	μA
	V _R =75V, T _J =150°C			50	μA	
Junction Capacitance	CJ	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

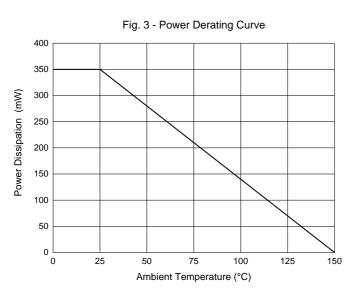
^{*} Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%



Curve Characteristics









Ordering Information

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

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