

Features

- Halogen Free. "Green" Device (Note 1)
- · AEC-Q101 Qualified
- · Low Current Leakage
- Small Outline Surface Mount Package
- · 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

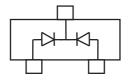
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 357°C/W Junction to Ambient

MCC Part Number	Device Marking		
BAV70HE3	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=1s)	I _{FSM}	1A
Power Dissipation	P _{TOT}	350mW

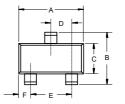
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

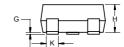
Pin Configuration Top View

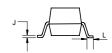


350mW 100 Volt Dual Switching Diode

SOT-23

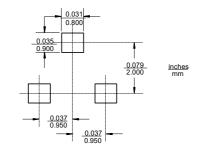






DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.014	0.020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

Suggested Solder Pad Layout





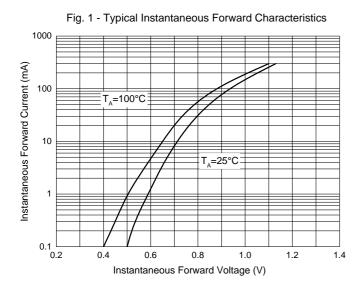
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

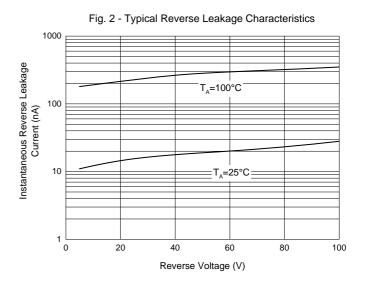
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
					0.715	V
Maximum	V _F	I _{FM} =10mA			0.855	V
Instantaneous Forward Voltage		I _{FM} =50mA			1	V
		I _{FM} =100mA			1.25	V
Maximum DC	I _R	V _R =75V, T _J =25°C			1	μA
Reverse Current		V _R =75V, T _J =150°C			50	μA
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$		2		pF
Reverse Recovery Time	t _{rr}	$I_F=10mA$, $V_R=6.0V$, $R_L=100\Omega$			4	ns

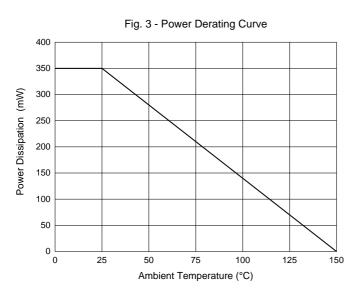
^{*} Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%



Curve Characteristics









Ordering Information

Device	Packing
BAV70HE3-TP	Tape&Reel: 3Kpcs/Reel

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