

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 (Note 2): 357°C/W Junction to Ambient

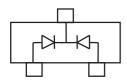
MCC Part Number	Repetitive Peak Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	DC Blocking Voltage V _R
BAV70HE3	100V	71V	100V

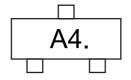
Electrical Characteristics @ 25°C Unless Otherwise Specifie

Parameter	Symbol	Value	
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.

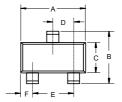
Internal Structure and Marking Code

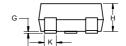


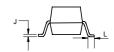


350mW 100 Volt Dual Switching Diode

SOT-23

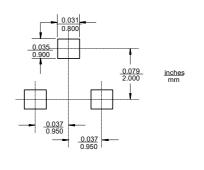






DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.110	0.120	2.80	3.04		
В	0.083	0.104	2.10	2.64		
С	0.047	0.055	1.20	1.40		
D	0.034	0.041	0.85	1.05		
Е	0.067	0.083	1.70	2.10		
F	0.018	0.024	0.45	0.60		
G	0.0004	0.006	0.01	0.15		
Н	0.035	0.043	0.90	1.10		
J	0.003	0.007	0.08	0.18	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

Suggested Solder Pad Layout



^{2.} Part mounted on FR-4 board with recommended pad layout.



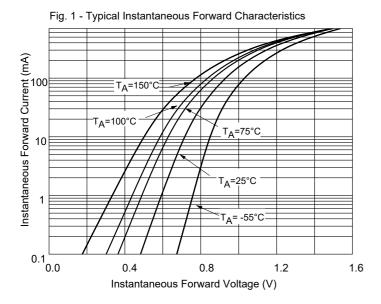
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

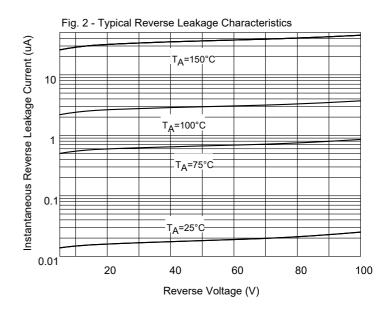
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V_{BR}	I _R =100μA	100			V
Instantaneous Forward Voltage	V _F	I _F =1mA			0.715	V
		I _F =10mA			0.855	V
		I _F =50mA			1	V
		I _F =100mA			1.25	V
Davis and Commont	I _R	V _R =75V, T _J =25°C			1	μA
Reverse Current		V _R =75V, T _J =150°C			50	μΑ
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$		2	3	pF
Reverse Recovery Time	t _{rr}	$I_F=10\text{mA},$ $V_R=6.0V,R_L=100\Omega$			4	ns

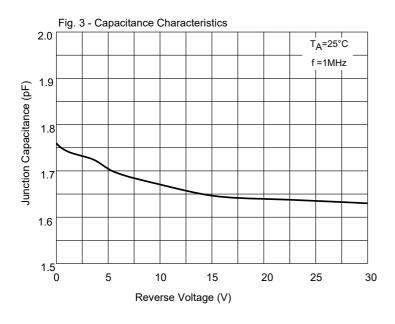
^{*} Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%

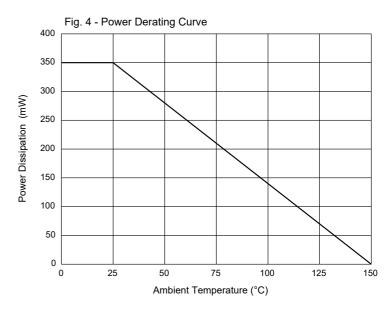


Curve Characteristics











Ordering Information

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

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