

Features

- Halogen Free. "Green" Device (Note 1)
- · 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): 625°C/W Junction to Ambient

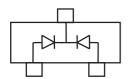
MCC Part Number	Repetitive Peak Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	DC Blocking Voltage V _R
BAV170WT	100V	71V	100V

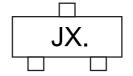
Electrical Characteristics @ 25°C Unless Otherwise Specifie

Parameter	Symbol	Value	
Average Forward Current	I _{F(AV)}	215mA	
Peak Forward Surge Current (t=1s)	I _{FSM}	1A	
Power Dissipation	P _{TOT}	200mW	

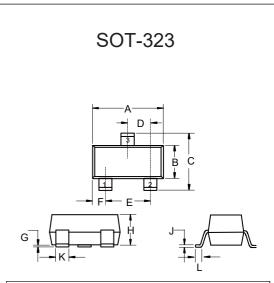
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure and Marking Code



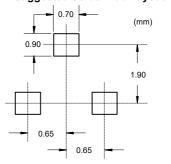


200mW 100 Volt Dual Switching Diode



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.071	0.087	1.80	2.20	
В	0.045	0.053	1.15	1.35	
С	0.083	0.096	2.10	2.45	
D	0.026		0.65		TYP.
Е	0.047	0.055	1.20	1.40	
F	0.012	0.016	0.30	0.40	
G	0.000	0.004	0.00	0.10	
Н	0.035	0.044	0.90	1.10	
J	0.002	0.010	0.05	0.25	
K	0.006	0.016	0.15	0.40	
L	0.010	0.018	0.26	0.46	

Suggested Solder Pad Layout



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



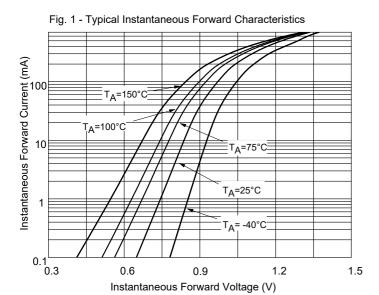
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

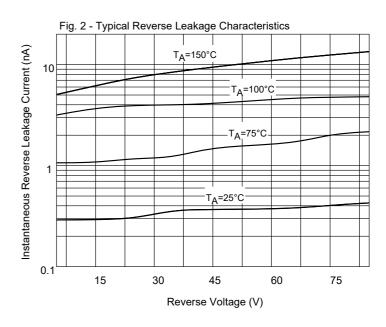
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V_{BR}	I _R =100μA	100			V
Instantaneous Forward Voltage	V _F	I _F =1mA			0.90	V
		I _F =10mA			1.00	V
		I _F =50mA			1.10	V
		I _F =150mA			1.25	V
Reverse Current	I _R	V _R =75V			5	nA
Junction Capacitance	CJ	V _R = 0V, f = 1MHz			4	pF
Reverse Recovery Time	t _{rr}	$I_F=I_R=10$ mA, $Irr=0.1*I_R$, $R_L=100\Omega$			3	us

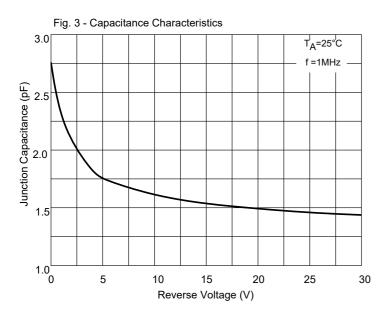
 $^{^{\}star}$ Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%

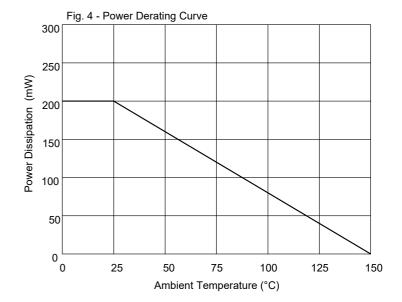


Curve Characteristics











Ordering Information

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

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