

Features

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

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance(Note2); 500°C/W Junction to Ambient

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	RMS Reverse Voltage VR(RMS)	DC Blocking Voltage V _R
BAV23-TP	250V	177V	250V

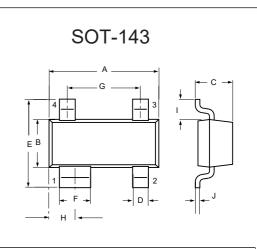
Electrical Characteristics @ 25°C Unless Otherwise Specifie

Forward Continuous Current	I _F	225mA	
Repetitive Peak Forward Current	I _{FRM}	625mA	
Forward Surge Current	I _{FSM}	3A	t=1ms
Power Dissipation	P_D	250mW	T _A = 25°C
Max Forward Voltage	V _F	1000mV 1250mV	I _F =100mA; I _F =200mA;
Max Reverse Current	I _R	0.1μΑ 100μΑ	V _R =400V V _R =400V,Tj=150°C
Min Reverse Breakdown Voltage	$V_{(BR)}$	200V	Ι _R =100μΑ
Max Junction Capacitance	CJ	5pF	Measured at 1.0MHz,V _R =1.0V
Max Reverse Recovery Time	t _{rr}	50ns	$I_F = I_R = 10 \text{mA}, I_{rr} = 0.1 \text{x} I_R, R_L = 100 \Omega$

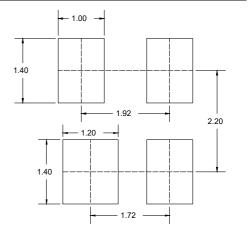
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Note: 2. Part mounted on FR-4 board with recommended pad layout.



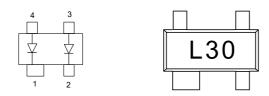


DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.047	0.055	1.20	1.39	
С	0.031	0.048	0.80	1.22	
D	0.011	0.020	0.30	0.51	
E	0.082	0.104	2.10	2.64	
F	0.029	0.037	0.76	0.94	
G	0.070	0.080	1.78	2.03	
Н	0.028	0.033	0.72	0.83	
I	0.015	0.024	0.40	0.60	
J	0.003	0.008	0.08	0.20	





Internal Structure and Marking Code



Curve Characteristics

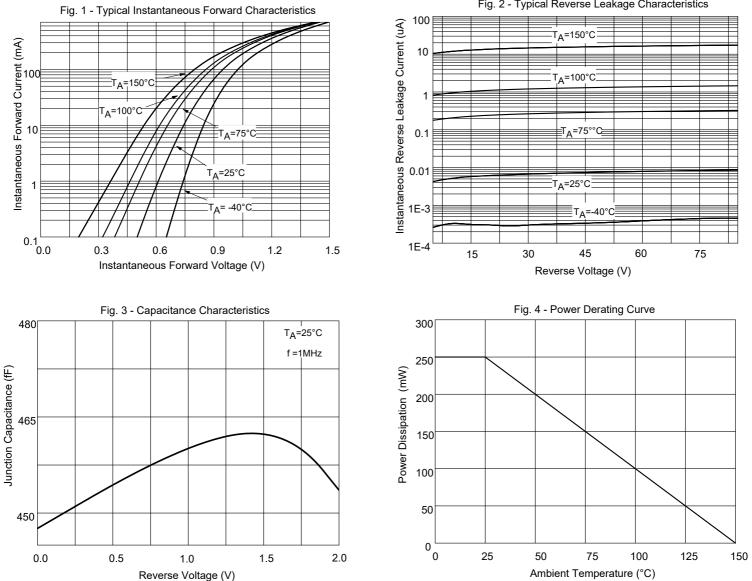


Fig. 2 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing	
BAV23-TP	Tape&Reel3Kpcs/Reel	

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