

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)

250mWatt Switching Diode

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

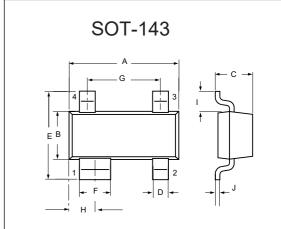
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	RMS Reverse Voltage VR(RMS)	DC Blocking Voltage V _R
BAV23-TP	250V	177V	250V

Electrical Characteristics @ 25°C Unless Otherwise Specifie

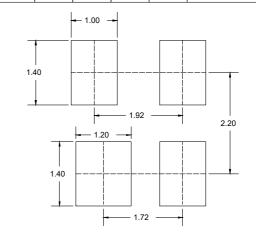
Forward Continuous Current	I _F	225mA	
Repetitive Peak Forward Current	I _{FRM}	625mA	
Forward Surge Current	I _{FSM}	3A	t=1ms
Power Dissipation	P _D	250mW	T _A = 25°C
Max Forward Voltage	V _F	1000mV 1250mV	I _F =100mA; I _F =200mA;
Max Reverse Current	I _R	0.1μA 100μA	V _R =200V V _R =200V,Tj=150 °C
Min Reverse Breakdown Voltage	V _(BR)	200V	I _R =100μA
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.



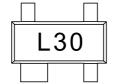
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.047	0.055	1.20	1.39	
С	0.031	0.048	0.80	1.22	
D	0.011	0.020	0.30	0.51	
E	0.082	0.104	2.10	2.64	
F	0.029	0.037	0.76	0.94	
G	0.070	0.080	1.78	2.03	
Н	0.028	0.033	0.72	0.83	
1	0.015	0.024	0.40	0.60	
J	0.003	0.008	0.08	0.20	



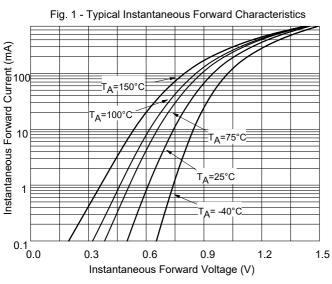


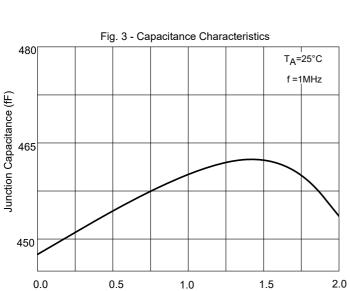
Internal Structure and Marking Code



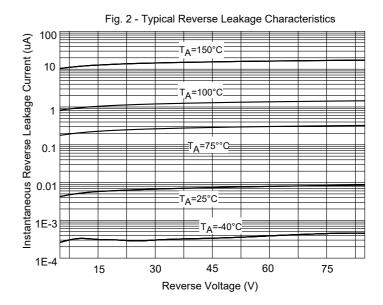


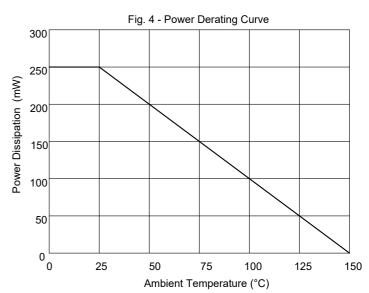
Curve Characteristics





Reverse Voltage (V)







Ordering Information

Device	Packing	
BAV23-TP	Tape&Reel3Kpcs/Reel	

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp**. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp**, and all the companies whose products are represented on our website, harmless against all damages. **Micro Commercial Components Corp**, products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.