

## **Features**

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

MCC Part Number	Device Marking
BAV199	JY

Forward			
Continuous	I <sub>F</sub>	215mA	
Current			

## Electrical Characteristics @ 25°C Unless Otherwise Specified

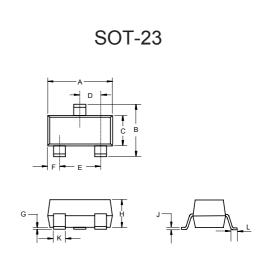
-					
Minimum Reverse Breakdown Voltage	$V_{BR}$	70V	I <sub>R</sub> =100μA		
Maximum Forward Voltage	$V_{F}$	0.90V 1.00V 1.10V 1.25V	$I_F=1.0mA$ $I_F=10.0mA$ $I_F=50.0mA$ $I_F=150.0mA$		
Maximum Leakage Current	I <sub>R</sub>	5.0nA	V <sub>R</sub> =75V		
Maximum Junction Capacitance	С	2.0pF	V <sub>R</sub> =0.0V,f=1.0MHz		
Maximum Reverse Recovery Time	t <sub>rr</sub>	3.0µs			

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**

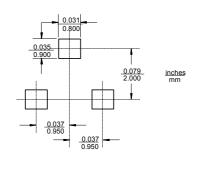


# Dual Series Switching Diode



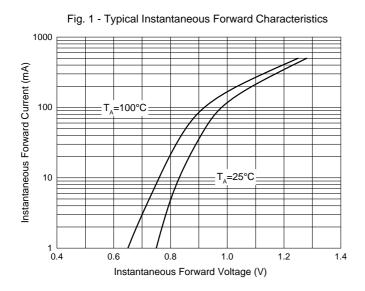
	DIMENSIONS				
DIM	INC	INCHES		M	NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.014	0.020	0.35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

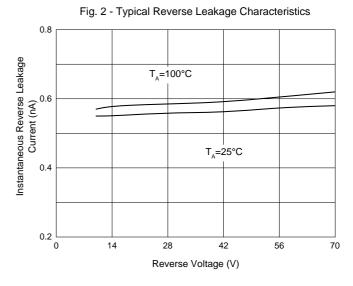
#### Suggested Solder Pad Layout

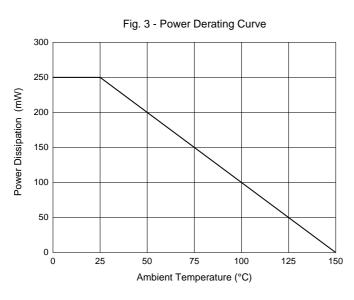




## **Curve Characteristics**







Rev.3-2-08012020 2/3 MCCSEMI.COM



# **Ordering Information**

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

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