

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:500°C/W Junction to Ambient(Note 2)

MCC Part Number	Repetitive Peak Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	DC Blocking Voltage V _R
BAV199HE3	85V	60V	85V

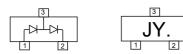
Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Value		
Average Rectified Current	I _{F(AV)}	215mA		
Peak Forward Surge Current	I _{FSM}	4A @1µs		
Power Dissipation	P _D	250mW		

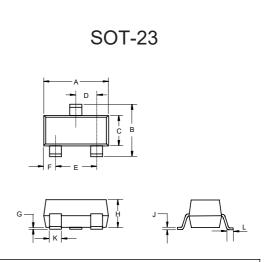
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. Valid Provided that Terminals are Kept at Ambient Temperature.

Internal Structure and Marking Code

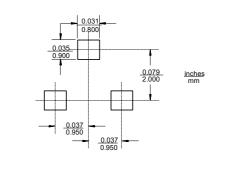


Dual Series Switching Diode



	DIMENSIONS					
DIM	INCHES		MM		NOTE	
DIN	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





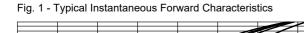
Electrical Characteristics @ 25°C Unless Otherwise Specified

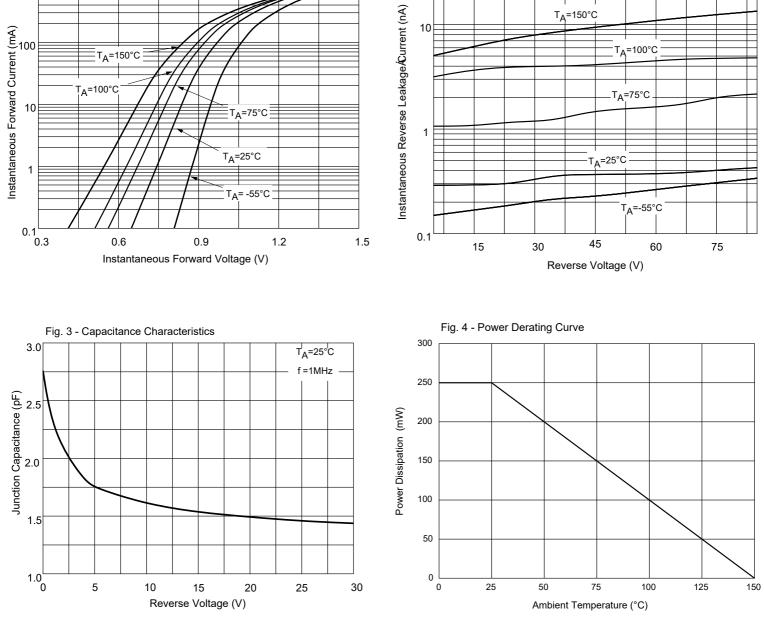
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V _{BR}	Ι _R =100μΑ	85			V
		I _F =1mA			0.90	V
		I _F =10mA			1.00	V
Forward Voltage	V _F	I _F =50mA			1.10	V
		I _F =150mA			1.25	V
Reverse Current	I _R	V _R =75V			5.00	nA
Junction Capacitance	CJ	V _R = 0V, f = 1MHz			5	pF
Reverse Recovery Time	t _{rr}	I _F =I _R =10mA, I _{rr} =0.1×I _R ,R _L =100Ω			3	us

Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%

Fig. 2 - Typical Reverse Leakage Characteristics









BAV199HE3

Ordering Information

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

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