

Features

- Small Outline Surface Mount Package
- Low Cost
- Low Current Leakage
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- 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:625°C/W Junction to Ambient

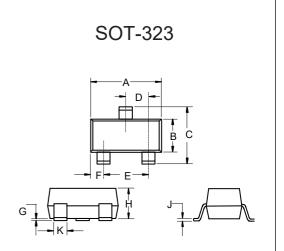
MCC Part Number	Device Marking	Repetitive Peak Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	Working Peak Reverse Voltage V _{RWM}
BAV199WT	K52	85V	60V	85V

Forward Continuous Current	I _F	160mA	
Average Rectified Output Current	Ι _ο	160mA	
Non-Repetitive Peak Forward Surge Current	I _{FSM}	4.0A 1.0A 0.5A	@1µs @1ms @1s
Power Dissipation	P _{TOT}	200mW	

Internal Structure

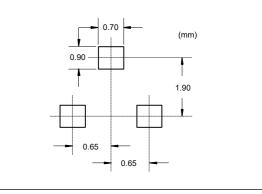


Dual Series Switching Diode



	DIMENSIONS				
DIM	INCHES		MM		NOTE
DIN	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 1	Nominal	0.65 N	lominal	
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	

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C Unless Otherwise Specified

Minimum Reverse Breakdown Voltage	V _{BR}	85V	I _R =100.0μA
Maximum Forward Voltage	V _F	0.90V 1.00V 1.10V 1.250V	$I_{FM}=1.0mA$ $I_{FM}=10.0mA$ $I_{FM}=50.0mA$ $I_{FM}=150.0mA$
Maximum Leakage Current	I _R	5.0nA	V _R =75V
Typical Junction Capacitance	CJ	2.0pF	V _R =0.0V,f=1.0MHz
Maximum Reverse Recovery Time	t _{rr}	3.0µs	



Curve Characteristics

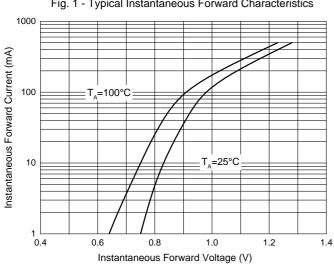
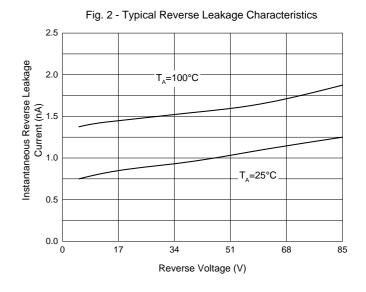
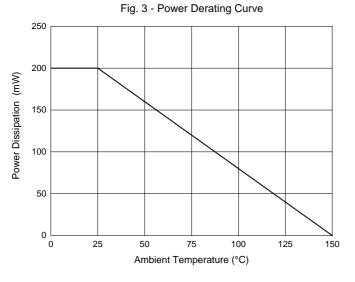


Fig. 1 - Typical Instantaneous Forward Characteristics







Ordering Information

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

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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