

### **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

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

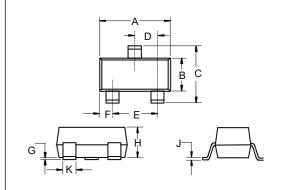
Forward Continuous Current	I <sub>F</sub>	160mA	
Average Rectified Output Current	l <sub>o</sub>	160mA	
Non-Repetitive Peak Forward Surge Current	I <sub>FSM</sub>	4.0A 1.0A 0.5A	@1µs @1ms @1s
Power Dissipation	P <sub>TOT</sub>	200mW	

#### **Internal Structure**



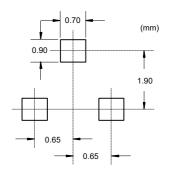
# Dual Series Switching Diode





DIMENSIONS					
DIM	INCHES		MM		NOTE
Dilvi	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	Nominal	0.65 N	ominal	
E	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



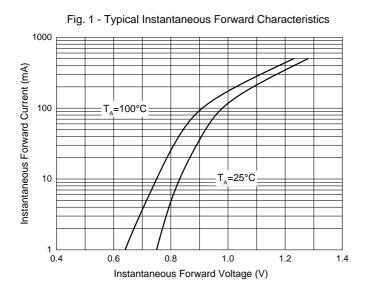


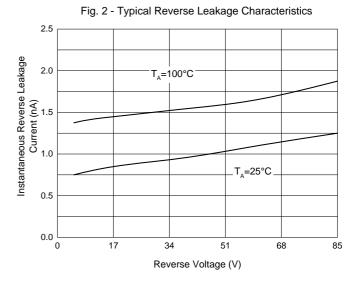
# Electrical Characteristics @ 25°C Unless Otherwise Specified

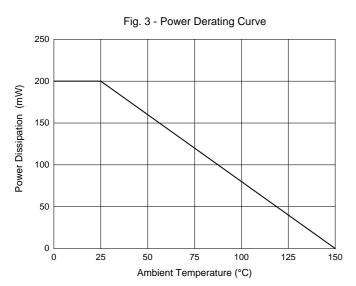
Minimum Reverse Breakdown Voltage	$V_{BR}$	85V	I <sub>R</sub> =100.0μA
Maximum Forward Voltage	V <sub>F</sub>	1.00V	I <sub>FM</sub> =1.0mA I <sub>FM</sub> =10.0mA I <sub>FM</sub> =50.0mA I <sub>FM</sub> =150.0mA
Maximum Leakage Current	I <sub>R</sub>	5.0nA	V <sub>R</sub> =75V
Typical Junction Capacitance	C <sub>J</sub>	2.0pF	V <sub>R</sub> =0.0V,f=1.0MHz
Maximum Reverse Recovery Time	t <sub>rr</sub>	3.0µs	



# **Curve Characteristics**







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# **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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