



Micro Commercial Components



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 20736 Marilla Street Chatsworth
 CA 91311
 Phone: (818) 701-4933
 Fax: (818) 701-4939

BAV199WT

Dual Series Switching Diode

Features

- Low Current Leakage
- Forward Current: $I_F=160\text{mA}$.
- Small Outline Surface Mount Package
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: K52
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

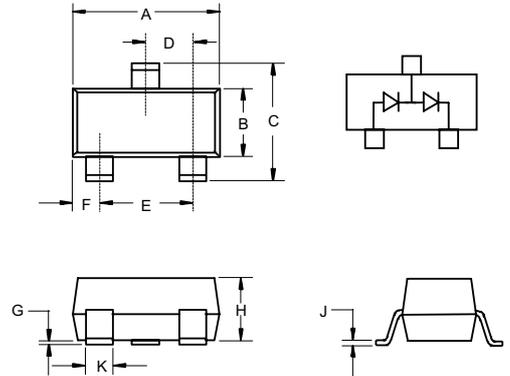
Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Value
Peak Repetitive Reverse Voltage	V_{RRM}	85V
Working Peak Reverse Voltage	V_{RWM}	85V
RMS Reverse Voltage	$V_{R(RMS)}$	60V
Average Rectified Output Current	I_O	160mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}	4A @1us 1A @1ms 0.5A @1s
Power Dissipation	P_{TOT}	200mW
Thermal Resistance Junction to Ambient	R_{thJA}	625°C/W
Operating Temperature	T_J	-55°C to +150°C
Storage Temperature	T_{stg}	-55°C to +150°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

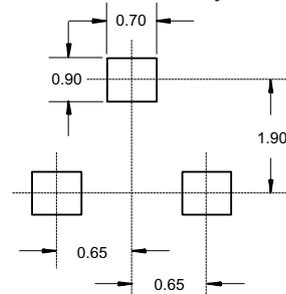
Symbol	Parameter	Min	Typ	Max	Unit
V_{BR}	Reverse Breakdown Voltage ($I_R=100\mu\text{A}$)	85	---	---	V
V_F	Forward Voltage	---	---	0.90	V
	$I_F=1.0\text{mA}$	---	---	1.00	
	$I_F=10\text{mA}$	---	---	1.10	
	$I_F=50\text{mA}$	---	---	1.25	
I_R	Leakage Current ($V_R=75\text{V}$)	---	---	5.0	nA
C_j	Junction Capacitance ($V_R=0, f=1.0\text{MHz}$)	---	2.0	---	pF
t_{rr}	Reverse recovery time	---	---	3.0	us

SOT-323

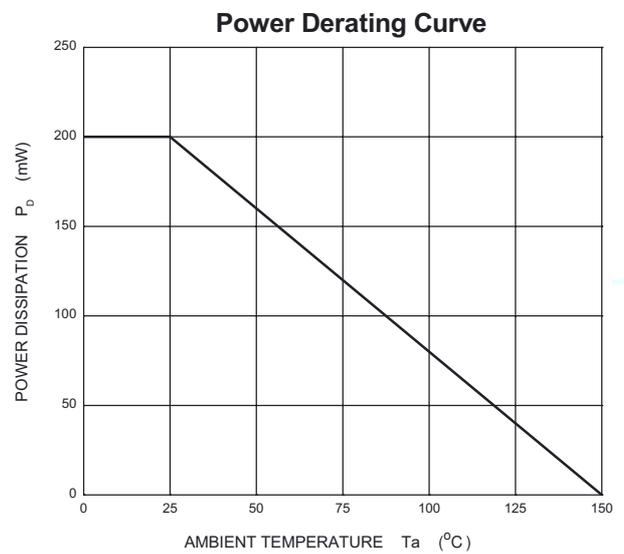
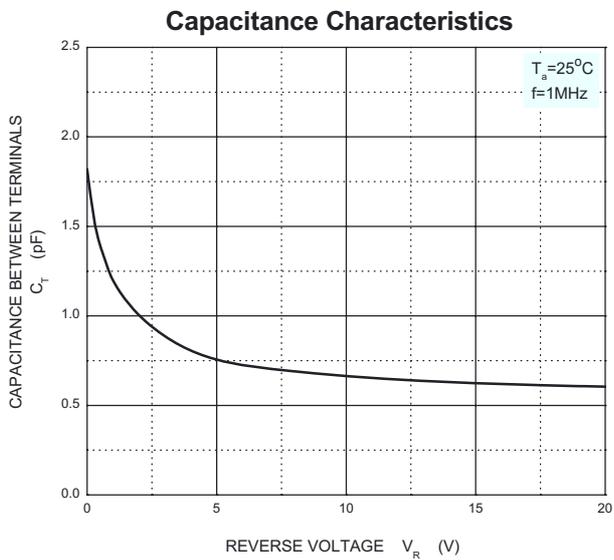
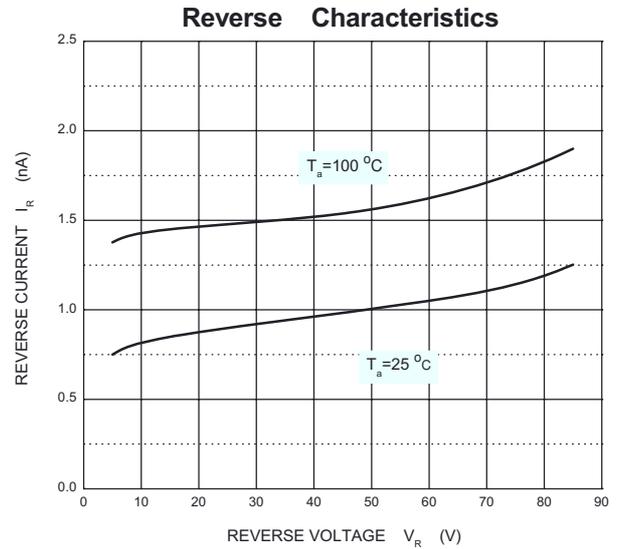
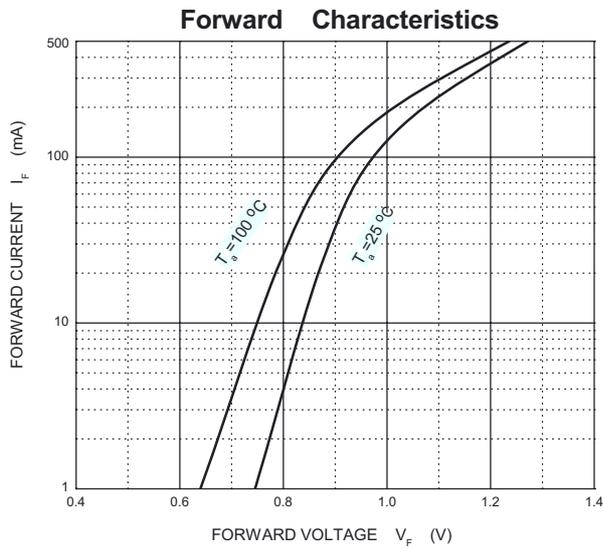


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.071	.087	1.80	2.20	
B	.045	.053	1.15	1.35	
C	.083	.096	2.10	2.45	
D	.026 Nominal		0.65 Nominal		
E	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
G	.000	.004	.000	.100	
H	.035	.039	.90	1.00	
J	.004	.010	.100	.250	
K	.006	.016	.15	.40	

Suggested Solder Pad Layout



Typical Characteristics





TM

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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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