



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Micro Commercial Components



Micro Commercial Components
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"

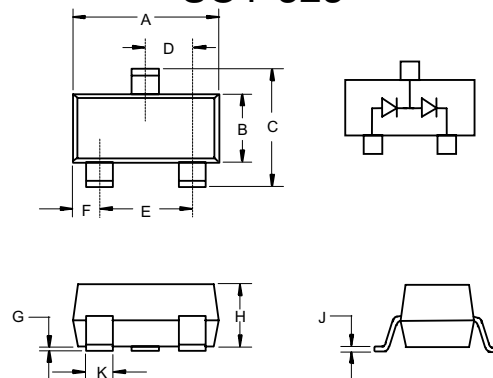
Maximum Ratings @ 25°C Unless Otherwise Specified

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

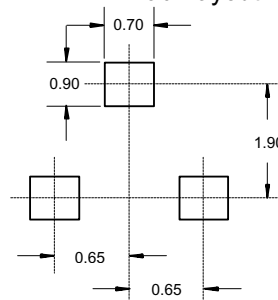
Symbol	Parameter	Min	Typ	Max	Unit
V_{BR}	Reverse Breakdown Voltage ($I_R=100\mu\text{A}$)	85	---	---	V
V_F	Forward Voltage $I_F=1.0\text{mA}$ $I_F=10\text{mA}$ $I_F=50\text{mA}$ $I_F=150\text{mA}$	---	---	0.90 1.00 1.10 1.25	V
I_R	Leakage Current ($V_R=75\text{V}$)	---	---	5.0	nA
C_j	Junction Capacitance ($V_R=0$, $f=1.0\text{MHz}$)	---	2.0	---	pF
t_{rr}	Reverse recovery time	---	---	3.0	μs

SOT-323



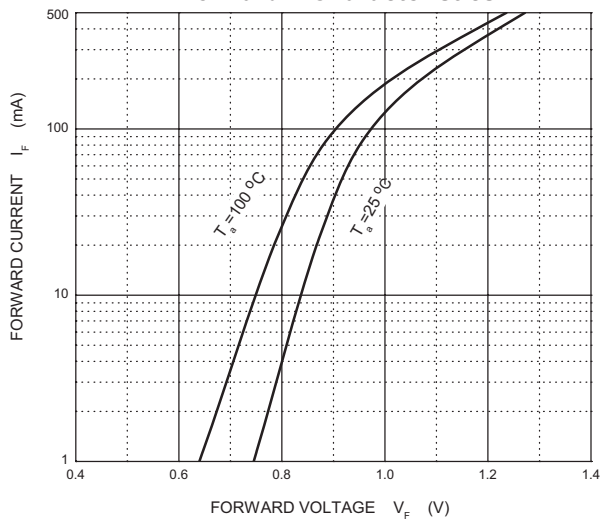
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.071	.087	1.80	2.20	
B	.045	.053	1.15	1.35	
C	.083	.096	2.10	2.45	
D	.026 Nominal		0.65 Nominal		
E	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
G	.000	.004	.000	.100	
H	.035	.039	.90	1.00	
J	.004	.010	.100	.250	
K	.006	.016	.15	.40	

Suggested Solder Pad Layout

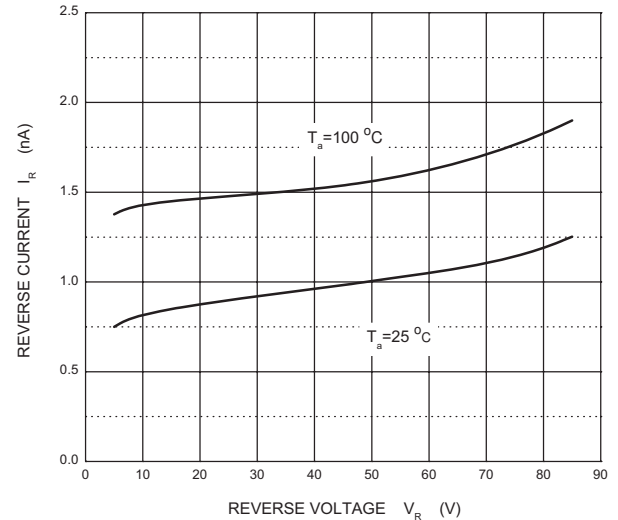


Typical Characteristics

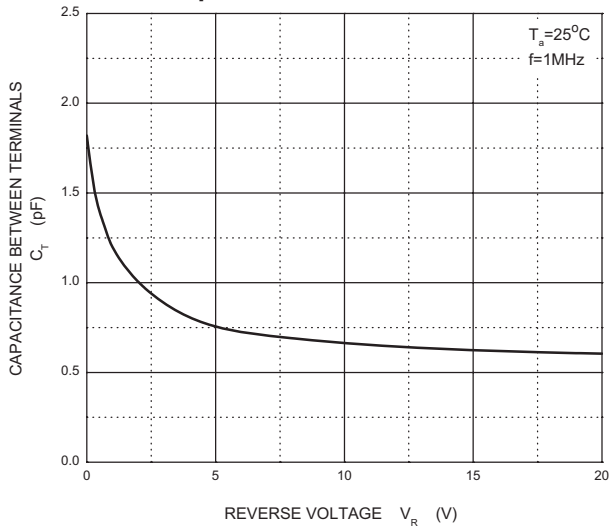
Forward Characteristics



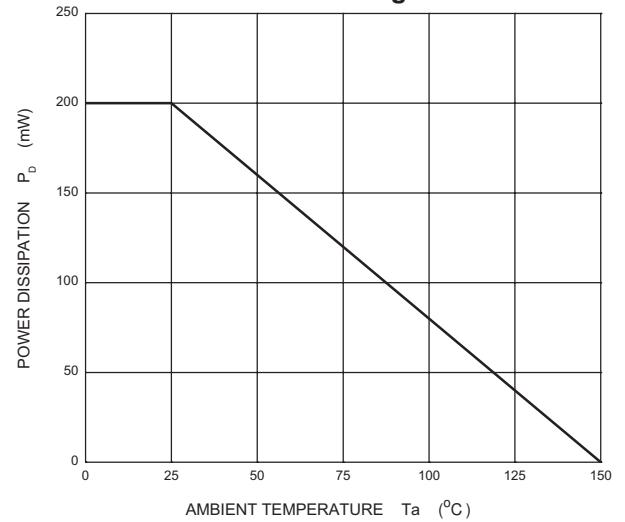
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve



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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