



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!



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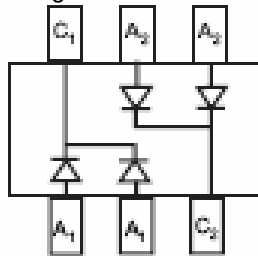
BAV70DW

Features

- Fast switching speed
- Ultra-Small surface mount package
- For general purpose switching applications
- High conductance
- Halogen free available upon request by adding suffix "-HF"

Mechanical Data

- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Marking Code: KJA
- MSL Rating 1
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1



Maximum Ratings

Symbol	Rating	Rating	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	100	V
V_{RRM}	Peak Repetitive Reverse Voltage	75	V
V_{RWM}	Working Peak Reverse Voltage		
V_R	DC Blocking Voltage		
$V_{R(RMS)}$	RMS Reverse Voltage	53	V
I_{FM}	Forward Continuous Current	300	mA
I_O	Average Rectified Output Current	150	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current @ $t=1.0\mu s$	2.0	A
	@ $t=1.0s$	1.0	
P_D	Power Dissipation	200	mW
R_{JA}	Thermal Resistance Junction to Ambient Air	625	$^{\circ}C/W$
T_J	Junction Temperature	-55 to +150	$^{\circ}C$
T_{STG}	Storage Temperature	-55 to +150	$^{\circ}C$

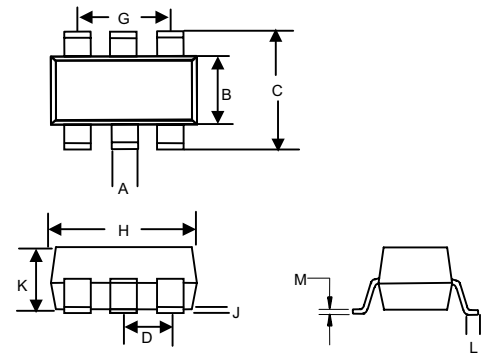
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
$V_{(BR)R}$	Reverse Breakdown Voltage ($I_R=2.5 \mu A_{dc}$)	75	---	---	V
V_F	Forward Voltage ⁽¹⁾	---	---	0.715	V
	$I_F=1.0mA_{dc}$			0.855	
	$I_F=10mA_{dc}$			1.0	
	$I_F=50mA_{dc}$			1.25	
I_R	Leakage Current ⁽¹⁾	---	---	2.5	μA
	($V_R=75V_{dc}$, $T_J=150^{\circ}C$)			50	μA
	($V_R=25V_{dc}$, $T_J=150^{\circ}C$)			30	μA
	($V_R=20V_{dc}$)			25	nA
C_j	Junction Capacitance ($V_R=0$, $f=1.0MHz$)	---	---	2.0	pF
t_{rr}	Reverse Recovery Time ($I_F=10mA$, $I_R=10mA$, $I_{rr}=0.1 \times I_R$, $R_L=100\Omega$)	---	---	4.0	ns

* (1) Short duration test pulse to minimize self-heating effect.

200mW Switching Diodes 75 Volts

SOT-363



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.006	.014	0.15	0.35	
B	.045	.053	1.15	1.35	
C	.085	.096	2.15	2.45	
D	.026		0.65Nominal		
G	.047	.055	1.20	1.40	
H	.071	.087	1.80	2.20	
J	---	.004	---	0.10	
K	.035	.043	0.90	1.10	
L	.010	.018	0.26	0.46	
M	.003	.006	0.08	0.15	

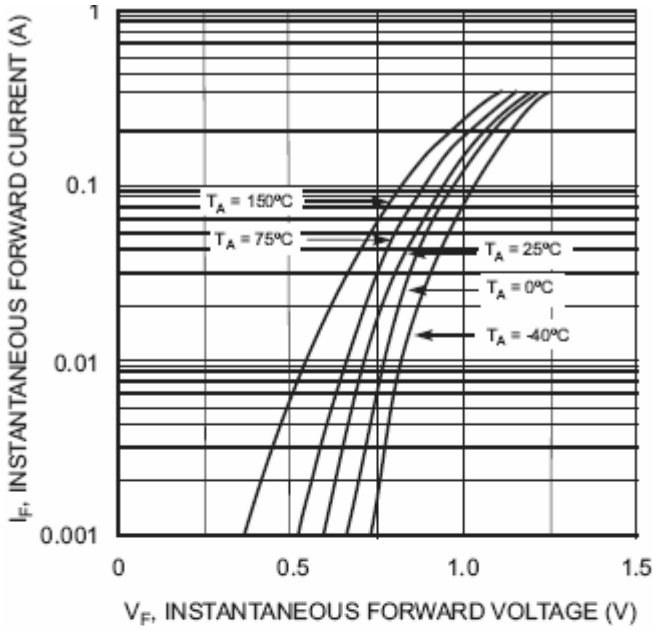


Fig. 1 Forward Characteristics

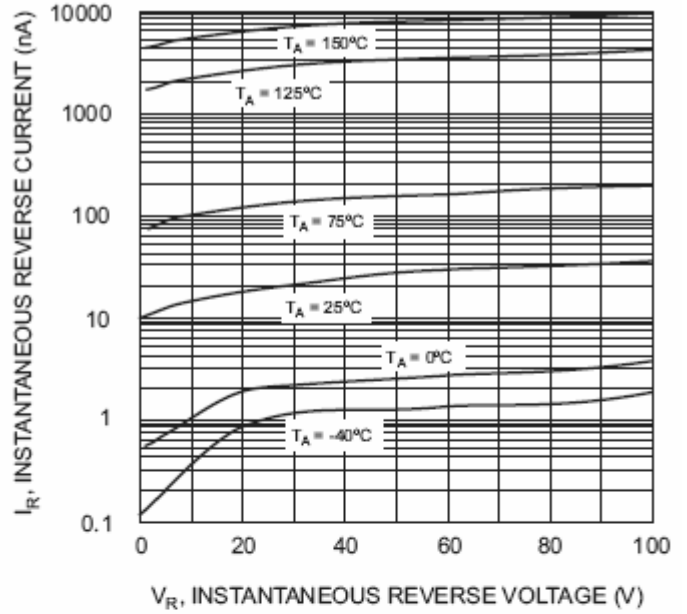


Fig. 2 Typical Reverse Characteristics

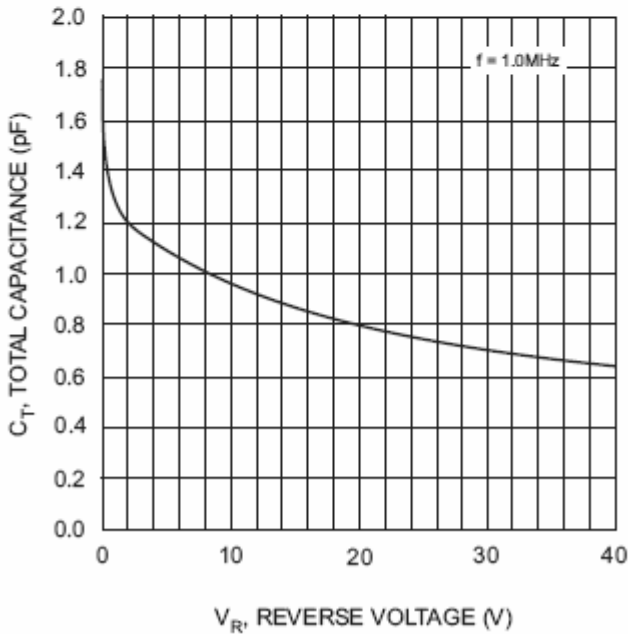


Fig. 3 Typical Capacitance vs. Reverse Voltage

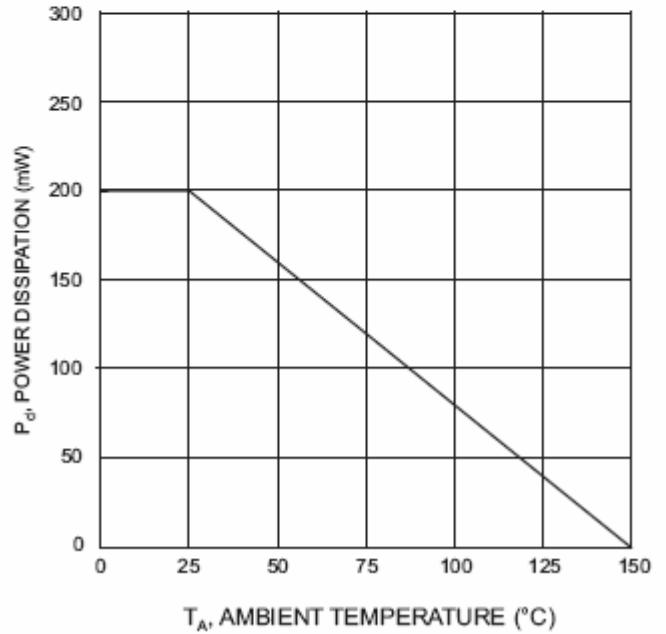


Fig. 4 Power Derating Curve



Micro Commercial Components

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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