



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

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Micro Commercial Components



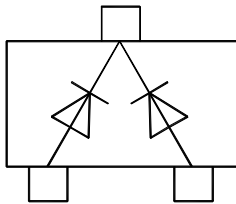
Micro Commercial Components
 20736 Marilla Street Chatsworth
 CA 91311
 Phone: (818) 701-4933
 Fax: (818) 701-4939

BAV70M

150mW Switching Diode

Features

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- High conductance
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Fast switching speed



Marking : A4

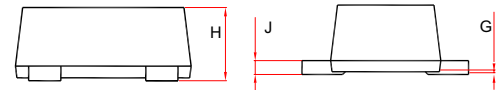
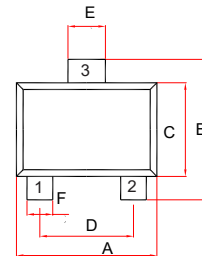
Maximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

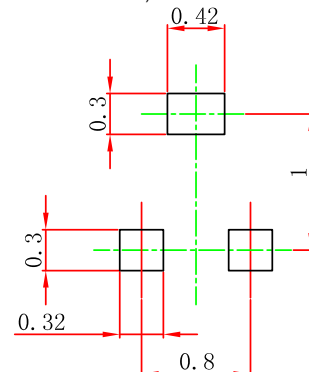
Non-Repetitive Peak reverse voltage	V_{RM}	100V	
Peak Repetitive Reverse Voltage	V_{RRM}	75V	
Working Peak Reverse Voltage	V_{RWM}		
DC Reverse Voltage	V_R		
Average rectified output current	I_O	200mA	
Non-Repetitive Peak Forward Surge Current	I_{FSM}	2A 1A	@1us @1s
Repetitive Peak Forward Current	I_{FRM}	450mA	
Power Dissipation	P_D	150mW	
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	357°C/W	
Maximum Instantaneous Forward Voltage	V_F	0.715V 0.855 1.0V 1.25V	$I_{FM} = 1mA;$ $I_{FM} = 10mA;$ $I_{FM} = 50mA;$ $I_{FM} = 150mA;$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	2.5μA 25nA 50μA 30μA	$V_R = 75Volts$ $V_R = 25Volts$ $V_R = 75Volts, T_j = 150°C$ $V_R = 25Volts, T_j = 150°C$
Diode Capacitance	C_D	2pF	Measured at 1.0MHz, $V_R = 0V$
Reverse Recovery Time	T_{rr}	4ns	$I_F = I_R = 10mA, I_R = 1mA,$ $V_R = 5V, R_L = 100Ω$

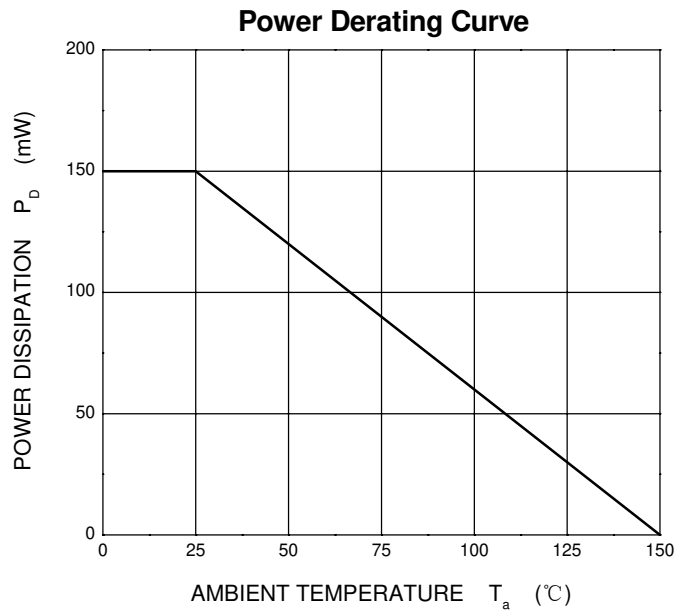
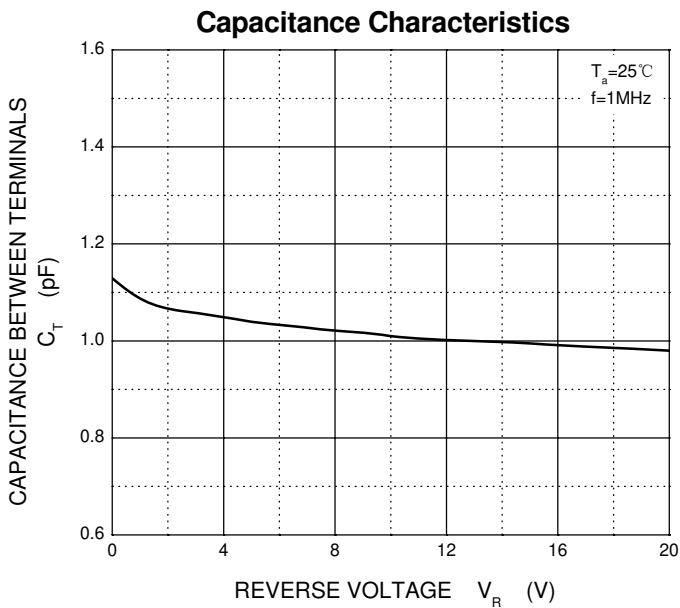
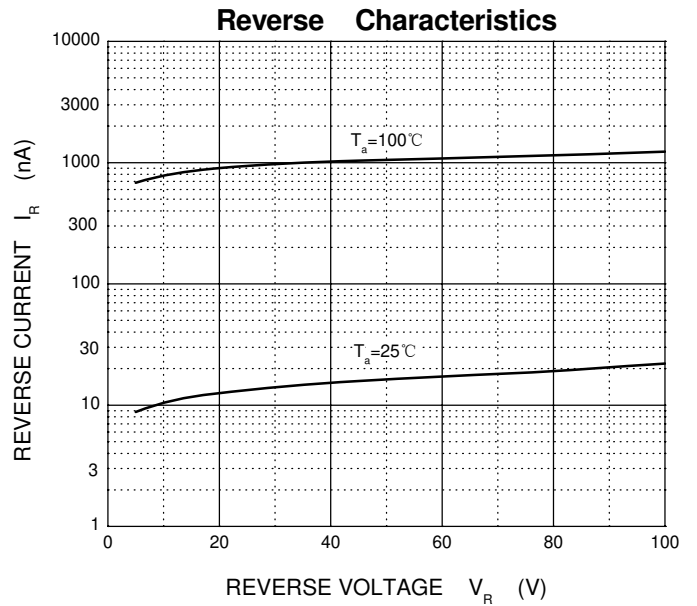
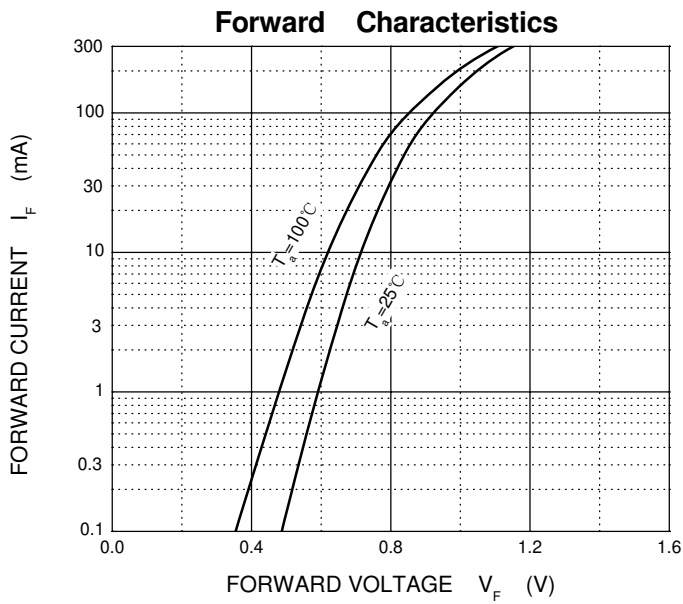
SOT-723



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.043	.051	1.10	1.30	
B	.043	.051	1.10	1.30	
C	.028	.035	0.70	0.90	
D	.031TYP.		0.80TYP.		
E	.009	.017	0.22	0.42	
F	.005	.013	0.12	0.32	
G	.000	.002	.000	.050	
H	.017	.021	0.43	0.54	
J	.003	.006	.080	.150	

Recommended Solder Pad (Unit:mm)
 (Tolerance: +/-0.05mm)







Micro Commercial Components

Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 8Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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