



Micro Commercial Components



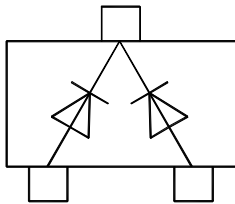
Micro Commercial Components
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 CA 91311
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BAV70M

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

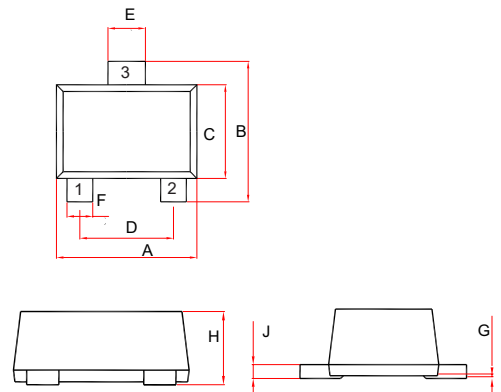
Maximum Ratings

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

Electrical Characteristics @ 25°C Unless Otherwise Specified

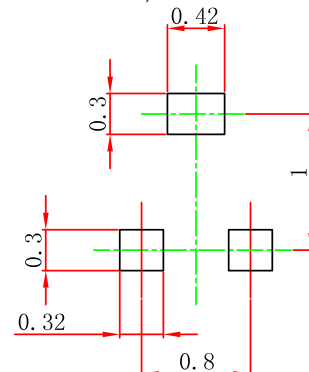
Non-Repetitive Peak reverse voltage	V_{RM}	100V	
Peak Repetitive Reverse Voltage	V_{RRM}	75V	
Working Peak Reverse Voltage	V_{RWM}		
DC Reverse Voltage	V_R		
Average rectified output current	I_O	200mA	
Non-Repetitive Peak Forward Surge Current	I_{FSM}	2A 1A	@1us @1s
Repetitive Peak Forward Current	I_{FRM}	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	$I_F = I_R = 10mA, I_R = 1mA,$ $V_R = 5V, R_L = 100\Omega$

SOT-723

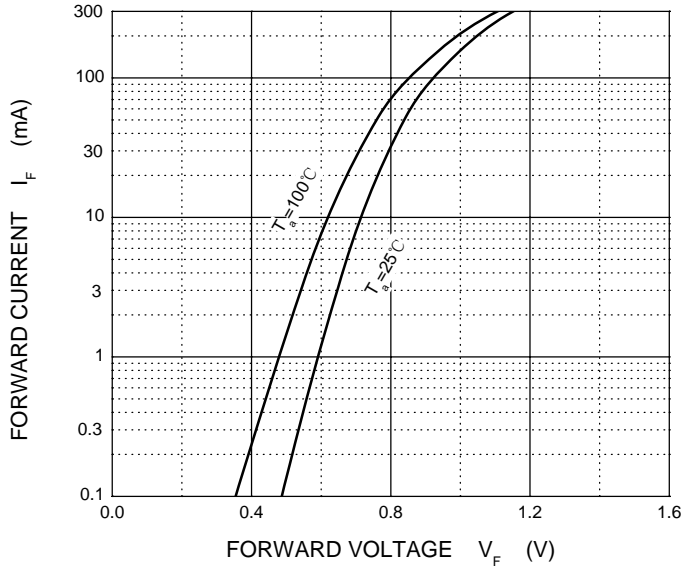


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.043	.051	1.10	1.30	
B	.043	.051	1.10	1.30	
C	.028	.035	0.70	0.90	
D	.031TYP.		0.80TYP.		
E	.009	.017	0.22	0.42	
F	.005	.013	0.12	0.32	
G	.000	.002	.000	.050	
H	.017	.021	0.43	0.54	
J	.003	.006	.080	.150	

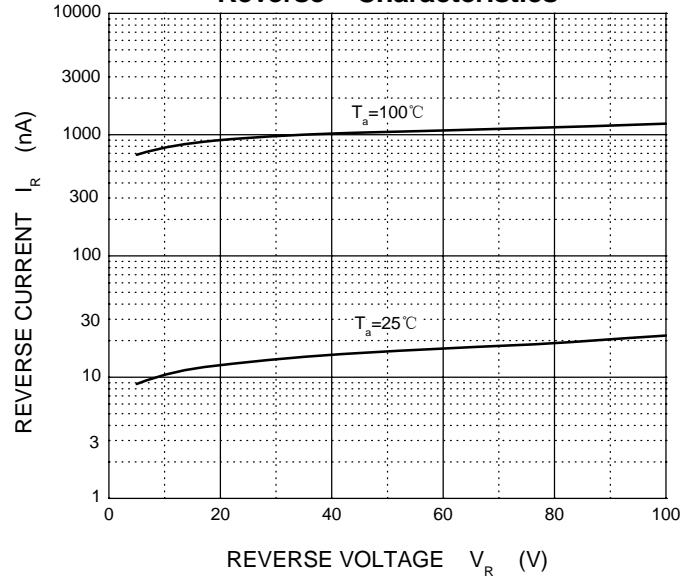
Recommended Solder Pad (Unit:mm)
 (Tolerance: +/-0.05mm)



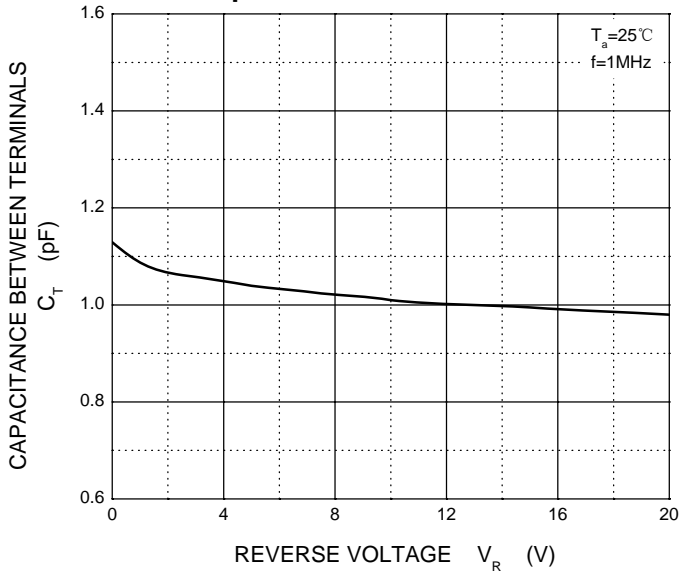
Forward Characteristics



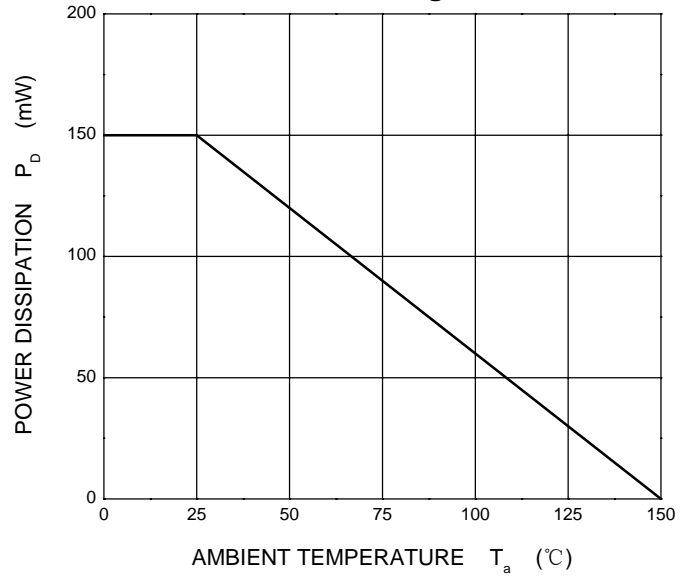
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve





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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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