

Features

- Fast Switching Speed
- **High Conductance**
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

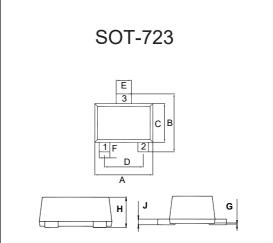
- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance:357°C/W Junction to Ambient

MCC Part Number	Device Marking	Repetitive Peak Reverse Voltage V _{RRM}		DC Blocking Voltage V _R
BAV70M	A4	75V		75V
Non-Repetitive Peak Reverse Voltage	V_{RM}	100V		
Working Peak Reverse Voltage	V_{RWM}	75V		
Average Rectified Output Current	I _o	200mA		
Peak Forward Surge Current	I _{FSM}	2.0A 1.0A	@1.0 @1.0	•
Repetitive Peak Forward Curren	I _{FRM}	450mA		
Power Dissipation	P_{D}	150mW		

Internal Structure

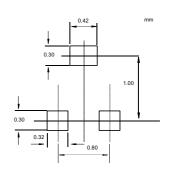


150mW **Switching Diodes**



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN		MIN	MAX	NOIL	
Α	0.043	0.051	1.10	1.30		
В	0.043	0.051	1.10	1.30		
С	0.028	0.035	0.70	0.90		
D	0.031TYP		0.80TYP.			
E	0.009	0.017	0.22	0.42		
F	0.005	0.013	0.12	0.32		
G	0.000	0.002	0.00	0.05		
Н	0.017	0.021	0.43	0.54		
J	0.003	0.006	0.08	0.15		

Suggested Solder Pad Layout



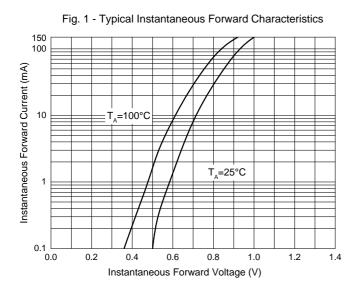


Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Forward Voltage	V _F	0.715V 0.855V 1.000V 1.250V	I _F =1.0mA I _F =10.0mA I _F =50.0mA I _F =150.0mA
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	2.5µA 30µA 50µA 25nA	$V_R=75V$ $V_R=25V T_j=150^{\circ}C$ $V_R=75V T_j=150^{\circ}C$ $V_R=25V$
Diode Capacitance	C _D	2.0pF	V _R =0.0V,f=1.0MHz
Reverse Recovery Time	t _{rr}	4.0ns	$I_F=10\text{mA}, I_R=10\text{mA}$ $I_{rr}=0.1*IR, R_L=100\Omega$ $V_R=5.0V$



Curve Characteristics



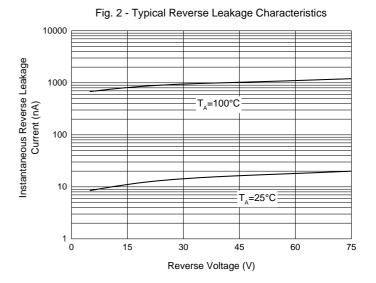


Fig. 3 - Power Derating Curve

200

150

150

0

0

25

50

Ambient Temperature (°C)



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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