

Features

- · Fast Switching Speed
- · High Conductance
- Halogen Free. "Green" Device (Note 1)
- · 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

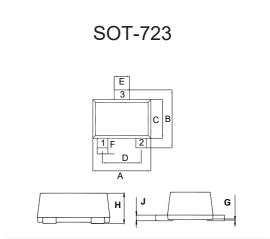
MCC Part Number	Device Marking	Repetitive Peak Reverse Voltage V _{RRM}		DC Blocking Voltage V _R
BAV70M	A4	75V		75V
Non-Repetitive Peak Reverse Voltage	V_{RM}	100V		
Working Peak Reverse Voltage	V_{RWM}	75V		
Average Rectified Output Current	I _o	200mA		
Peak Forward Surge Current	I _{FSM}	2.0A 1.0A	@1. @1.	•
Repetitive Peak Forward Curren	I _{FRM}	450mA		
Power Dissipation	P _D	150mW		

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure

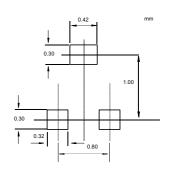


150mW Switching Diodes



	DIMENSIONS						
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	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.				
Е	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



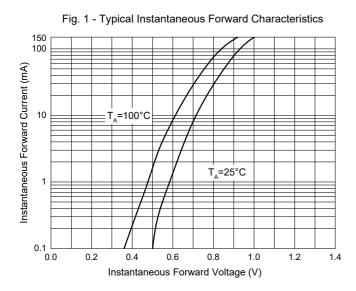


Electrical Characteristics @ 25°C Unless Otherwise Specified

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°C V_R =75V T_j =150°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 =10mA, I_R =10mA I_{rr} =0.1*IR, R_L =100 Ω V_R =5.0 V



Curve Characteristics



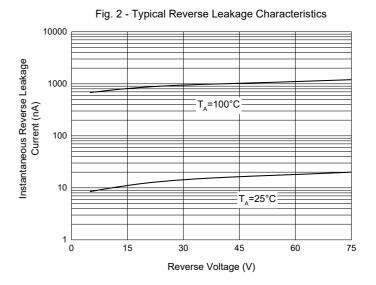


Fig. 3 - Power Derating Curve

200

150

150

0

0

25

50

Ambient Temperature (°C)

Rev.3-3-12012020 3/4 MCCSEMI.COM



Ordering Information

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

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