

## Dual surface mount switching diode

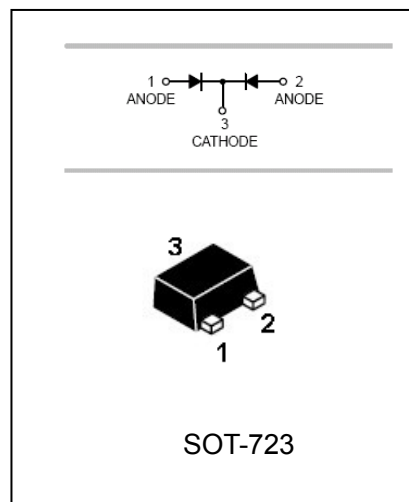
## BAV70M

### FEATURES

- Fast switching speed
- High conductance
- Common cathode
- For general purpose switching applications
- Surface mount package ideally suited for automatic insertion



Lead-free



### APPLICATIONS

- Small signal switching

### ORDERING INFORMATION

Type No.	Marking	Package Code
BAV70M	A4	SOT-723

### MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	$V_{RM}$	100	V
Peak repetitive reverse voltage	$V_{RRM}$	75	V
Working peak reverse voltage	$V_{RWM}$		
DC Reverse Voltage	$V_R$		
RMS Reverse Voltage	$V_{R(RMS)}$	53	V
Average rectified output current	$I_O$	150	mA
Repetitive Peak Forward current	$I_{FRM}$	450	mA
Non-repetitive forward Surge Current	$I_{FSM}$	2.0	A
@t=1.0μs		1.0	
@t=1.0s			
Power Dissipation	$P_d$	150	mW
Thermal resistance, junction to ambient air	$R_{\theta JA}$	357	°C/W
Junction temperature	$T_j$	150	°C
Storage temperature range	$T_{stg}$	-65 to +150	°C

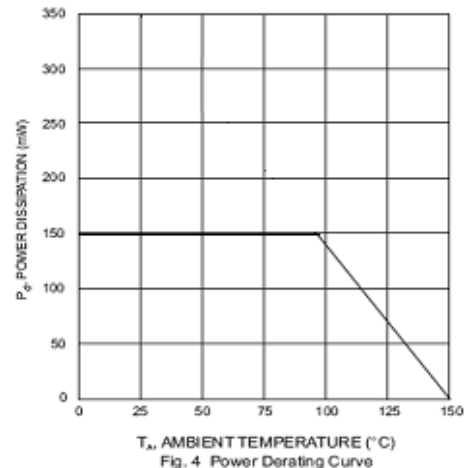
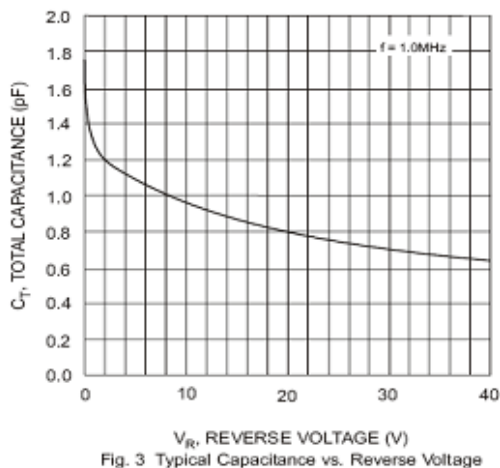
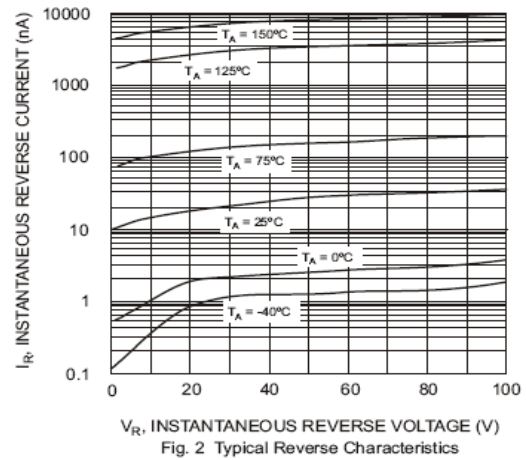
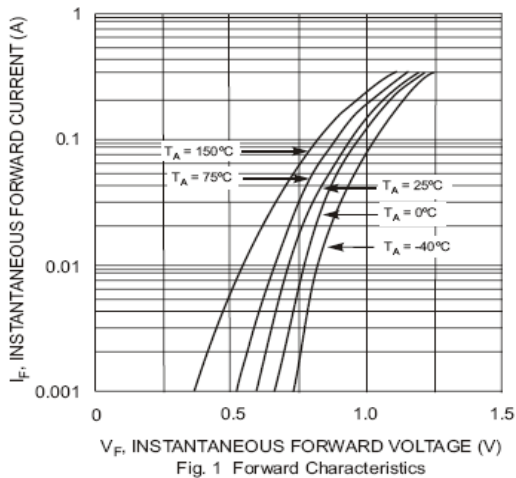
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**BAV70M**

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	$I_R = 2.5\mu A$	75		V
Reverse voltage leakage current	$I_R$	$V_R = 75V$		2.5	$\mu A$
		$V_R = 20V$		25	nA
		$V_R = 75V, T_J = 150^\circ C$		50	$\mu A$
		$V_R = 25V, T_J = 150^\circ C$		30	$\mu A$
Forward voltage	$V_F$	$I_F = 1mA$		715	mV
		$I_F = 10mA$		855	
		$I_F = 50mA$		1000	
		$I_F = 150mA$		1250	
Total capacitance	$C_T$	$V_R = 0V, f = 1MHz$		2.0	pF
Reverse recovery time	$t_{rr}$	$I_F = I_R = 10mA, I_R = 1mA, V_R = 5V, R_L = 100\Omega$		4	ns

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

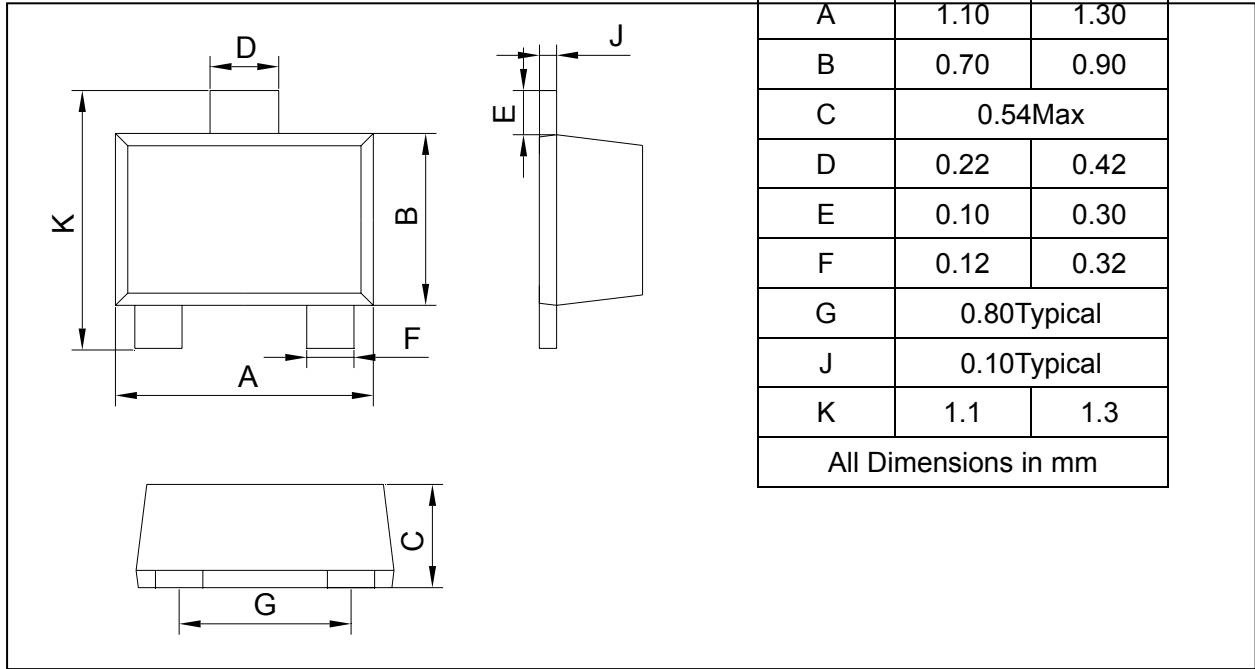


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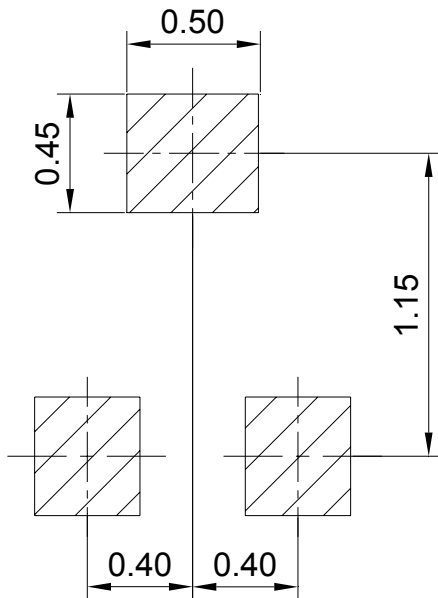
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PACKAGE OUTLINE

Plastic surface mounted package  
SOT-723



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping

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**BAV70M**

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BAV70M	SOT-723	10000/Tape&Reel
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