



Micro Commercial Components

## Features

- Low Current Leakage
- Low Cost
- Small Outline Surface Mount Package
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1
- Marking:A7/JG

## Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 357K/W Junction To Ambient

## Electrical Characteristics @ 25°C Unless Otherwise Specified

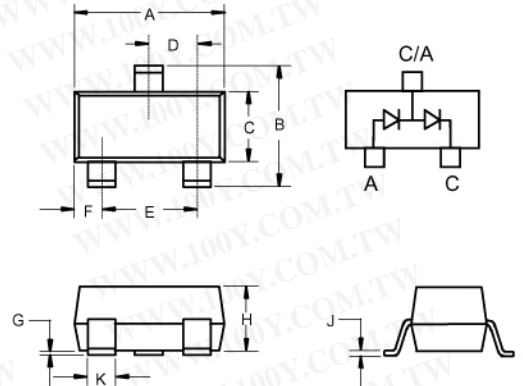
Reverse Voltage	$V_R$	70V	
Average Rectified Output Current	$I_O$	200mA	
Power Dissipation	$P_{TOT}$	350mW	
Peak Forward Surge Current	$I_{FSM}$	1.0A	t=1s, Non-Repetitive
		2.0A	t=1us, Non-Repetitive
Maximum Instantaneous Forward Voltage	$V_F^*$	715mV	$I_{FM} = 1mA;$
		855mV	$I_{FM} = 10mA;$
		1000mV	$I_{FM} = 50mA;$
		1250mV	$I_{FM} = 150mA;$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	2.5uA	VR=75Volts TJ = 25°C
		50uA	VR=75Volts TJ = 150°C
		30uA	VR=25Volts TJ = 150°C
Typical Junction Capacitance	$C_J$	2.0pF	Measured at 1.0MHz, VR=0V
Reverse Recovery Time	$T_{rr}$	6nS	IF=10mA, Irr=1mA RL=100Ω

\*Pulse test: Pulse width 300 μsec, Duty cycle 2%

## BAV99

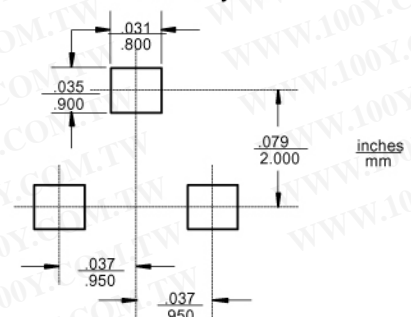
## 350mW 70Volt Dual Series Switching Diode

### SOT-23



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.098	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

### Suggested Solder Pad Layout



# BAV99

勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-34970699  
勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

**M.C.C.**

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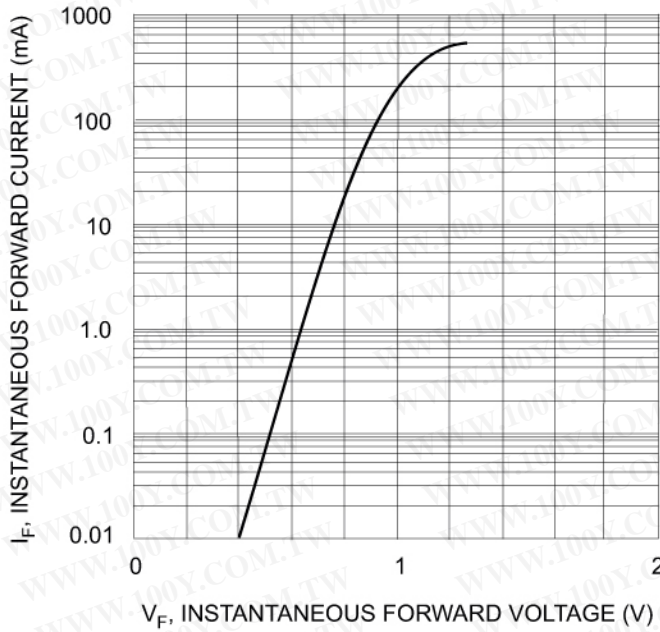


Fig. 1 Forward Characteristics

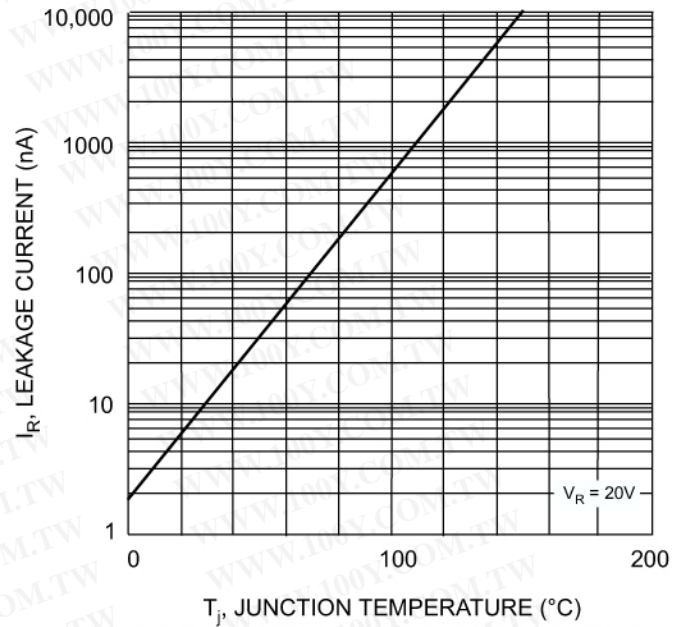


Fig. 2 Leakage Current vs Junction Temperature



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## Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel

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