



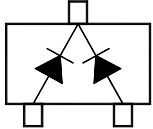
# BAV70<sup>+</sup> Silicon Epitaxial Planar Switching Diode

## Features

- Small package
- Low forward voltage
- Fast reverse recovery time

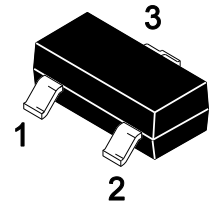
## Pin Configuration

3.Cathode1、 Cathode2



1.Anode1 2.Anode2

## Package



1.Anode1 2.Anode2  
3.Cathode1、 Cathode2

Marking Code : A4

## Electrical Characteristics (at T<sub>J</sub> = 25°C)

Parameter	Symbol	Value	Unit
Maximum Repetitive Reverse Voltage	V <sub>RRM</sub>	100	V
Reverse Voltage	V <sub>R</sub>	75	V
Average Rectified Forward Current	I <sub>F(AV)</sub>	200	mA
Maximum Peak Forward Current	I <sub>FM</sub>	300	mA
Non-repetitive Peak Forward Surge Current	I <sub>FSM</sub>	1 2	A
			at t = 1 s at t = 1 μs
Power Dissipation	P <sub>D</sub>	350	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C



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9`YWF]WU`7\ UFUWHf]gh]Wg`fH<sub>5</sub>1&) °CŁ

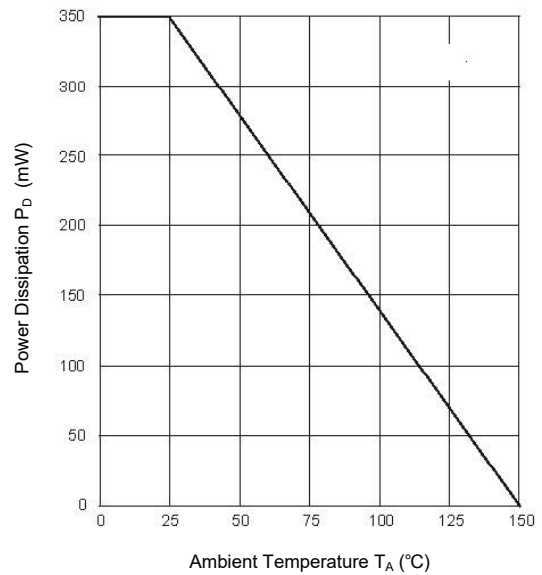
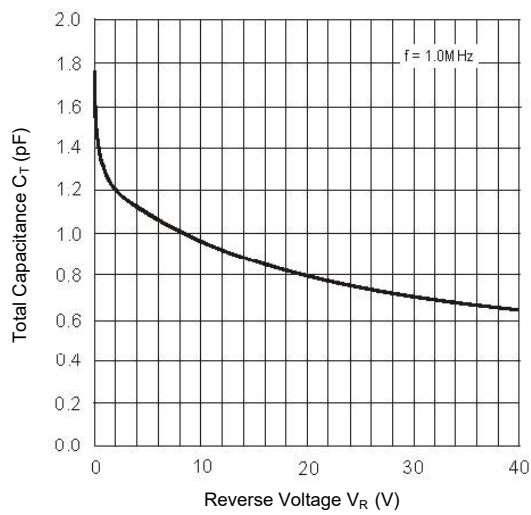
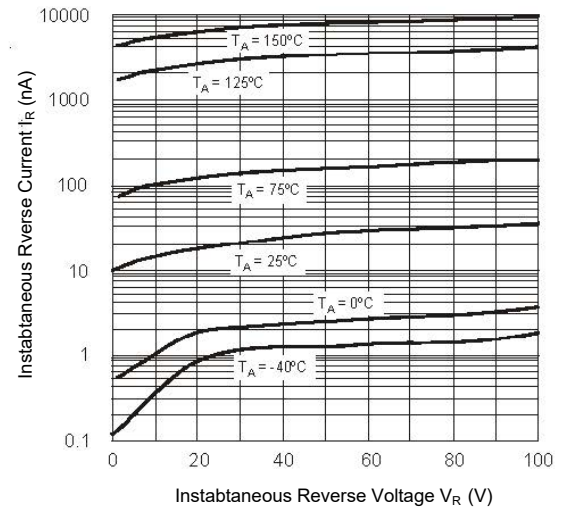
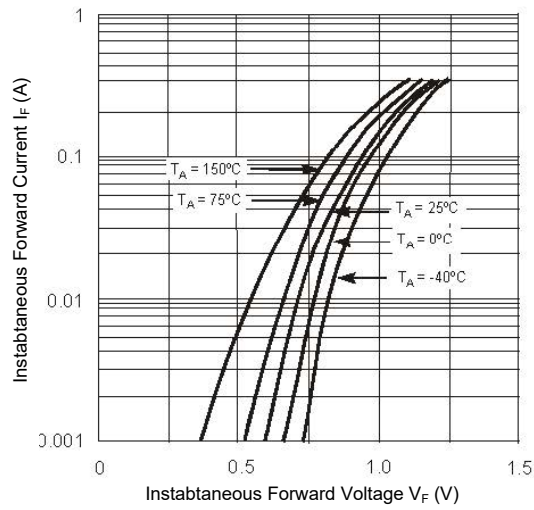
Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 1 \text{ mA}$ at $I_F = 10 \text{ mA}$ at $I_F = 50 \text{ mA}$ at $I_F = 150 \text{ mA}$	$V_F$	-- -- -- --	0.715 0.855 1 1.25	V
Reverse Breakdown Voltage at $I_R = 100 \mu\text{A}$	$V_{(BR)R}$	75	--	V
Reverse Current at $V_R = 20 \text{ V}$ at $V_R = 75 \text{ V}$ at $V_R = 20 \text{ V}$ , at $T_J = 150 \text{ }^\circ\text{C}$ at $V_R = 75 \text{ V}$ , at $T_J = 150 \text{ }^\circ\text{C}$	$I_R$	-- -- -- --	0.025 2.5 30 50	$\mu\text{A}$
Typical Junction Capacitance at $V_R = 0 \text{ V}$ , $f = 1 \text{ MHz}$	$C_j$	--	2	pF
Maximum Reverse Recovery Time at $I_F = 10 \text{ mA}$ , $V_R = 6 \text{ V}$ , $I_{RR} = 1 \text{ mA}$ , $R_L = 100 \Omega$	$T_{rr}$	--	4	nS



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### Typical Characteristic Curves





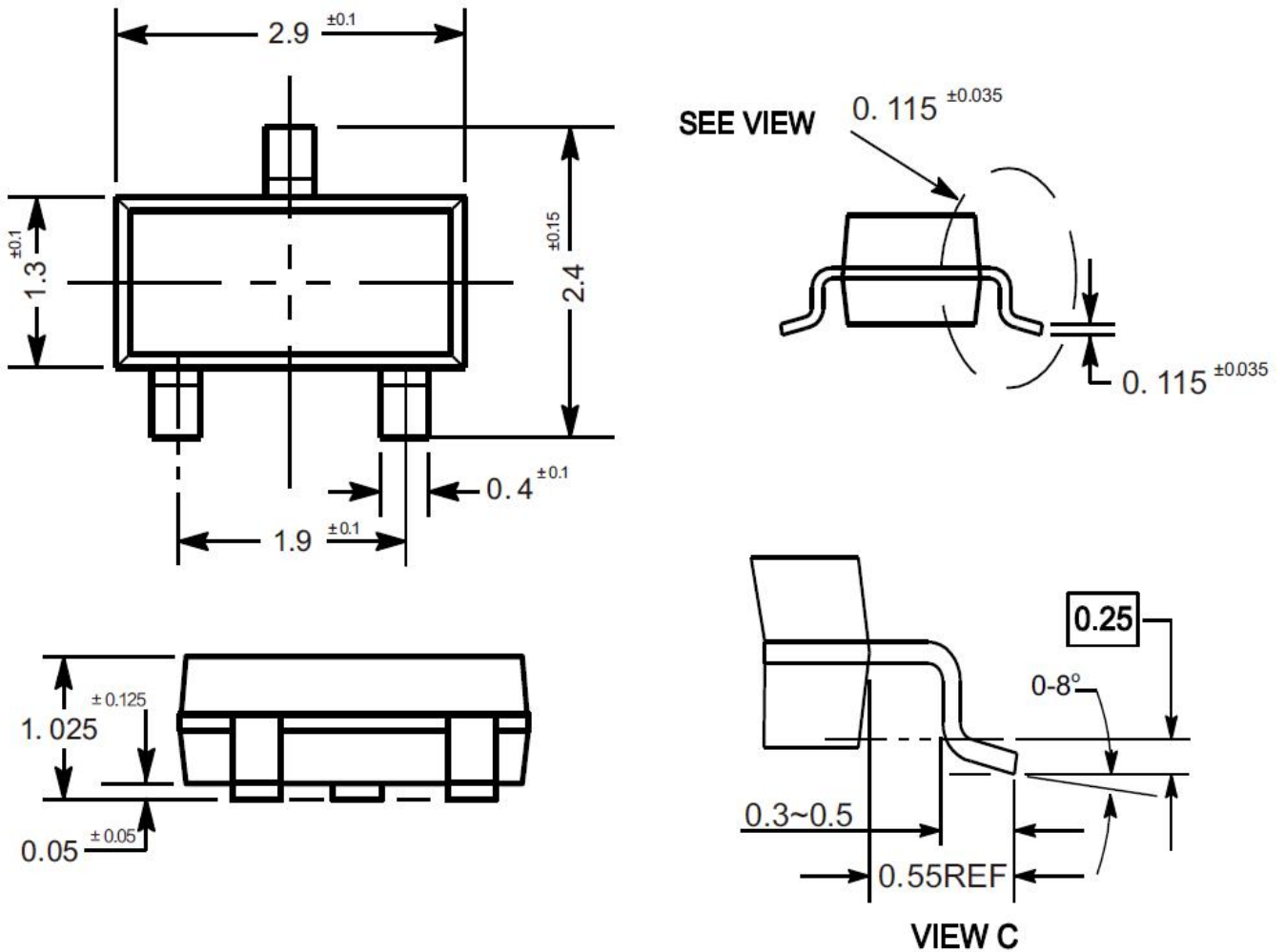
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## Silicon Epitaxial Planar Switching Diode

### Package Outline

SOT-23

Dimensions in mm



### Ordering Information

Device	Package	Shipping
BAV70	SOT-23	3,000PCS/Reel&7inches