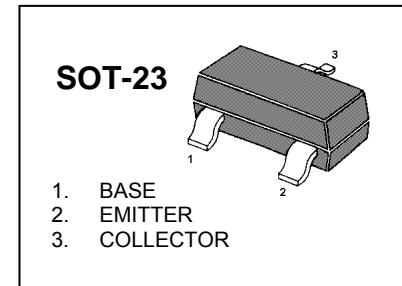
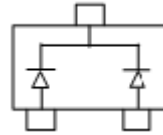


BAV70 SWITCHING DIODES

FEATURES

Fast Switching Speed
For General Purpose Switching Applications
High Conductance



MARKING: A4

Maximum Ratings @T_A=25°C

Paramet	Symbol	Lim	Unit
Reverse voltage	V _R	8	V
Forward Current	I _F	2	mA
Peak Forward Surge Current	I _{FM(surge)}	5	mA
Power Dissipation	P _D	2	mW
Thermal Resistance Junction to Ambient Air	R _{θJA}	5	°C/W
Junction temperature	T _J	1	°C
Storage temperature range	T _{STG}	-55-150	°C

Electrical Characteristics @T_A=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	V _R	80			V	I _R =100μA
Forward voltage	V _{F1}			0.715	V	I _F =1mA
	V _{F2}			0.855	V	I _F =10mA
	V _{F3}			1	V	I _F =50mA
	V _{F4}			1.25	V	I _F =150mA
Reverse current	I _R			2.5	μA	V _R =80V
Capacitance between terminals	C _T			1.5	pF	V _R =0, f=1MHz
Reverse recovery time	t _{rr}			6	ns	I _F = I _R = 10mA, I _{rr} = 0.1 x I _R , R _L = 100Ω

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Typical Characteristics

BAV70

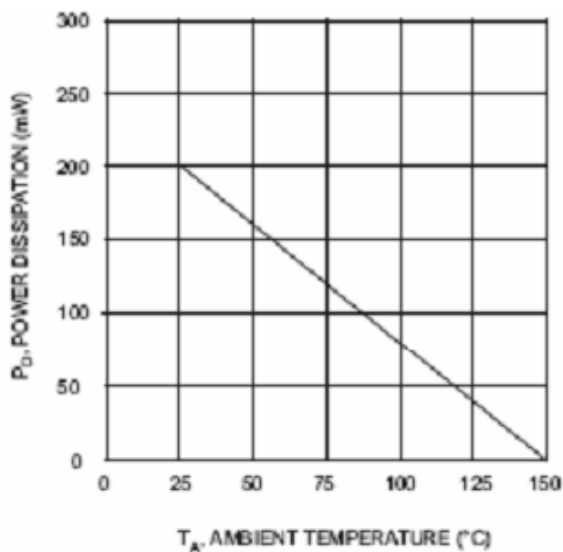


Fig. 1 Power Derating Curve

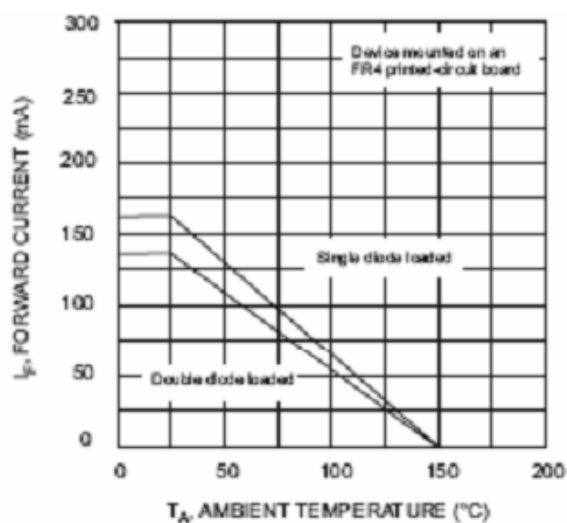


Fig. 2 Current Derating Curve

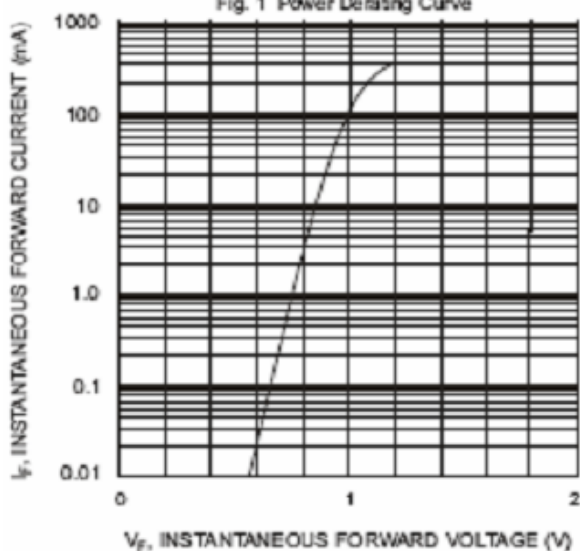


Fig. 3 Typical Forward Characteristics

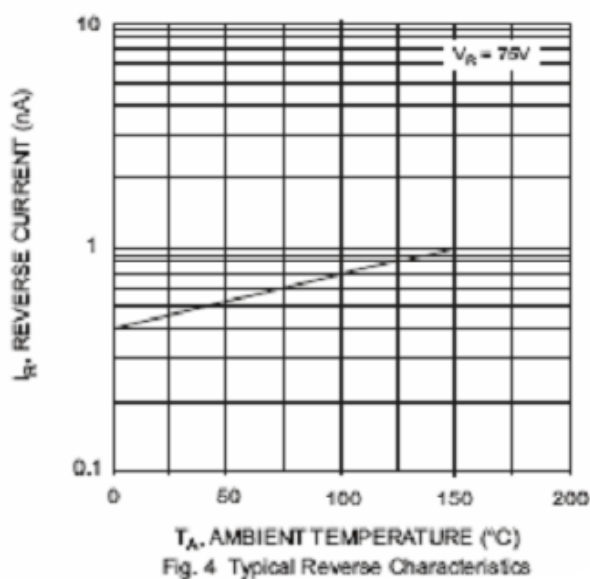


Fig. 4 Typical Reverse Characteristics

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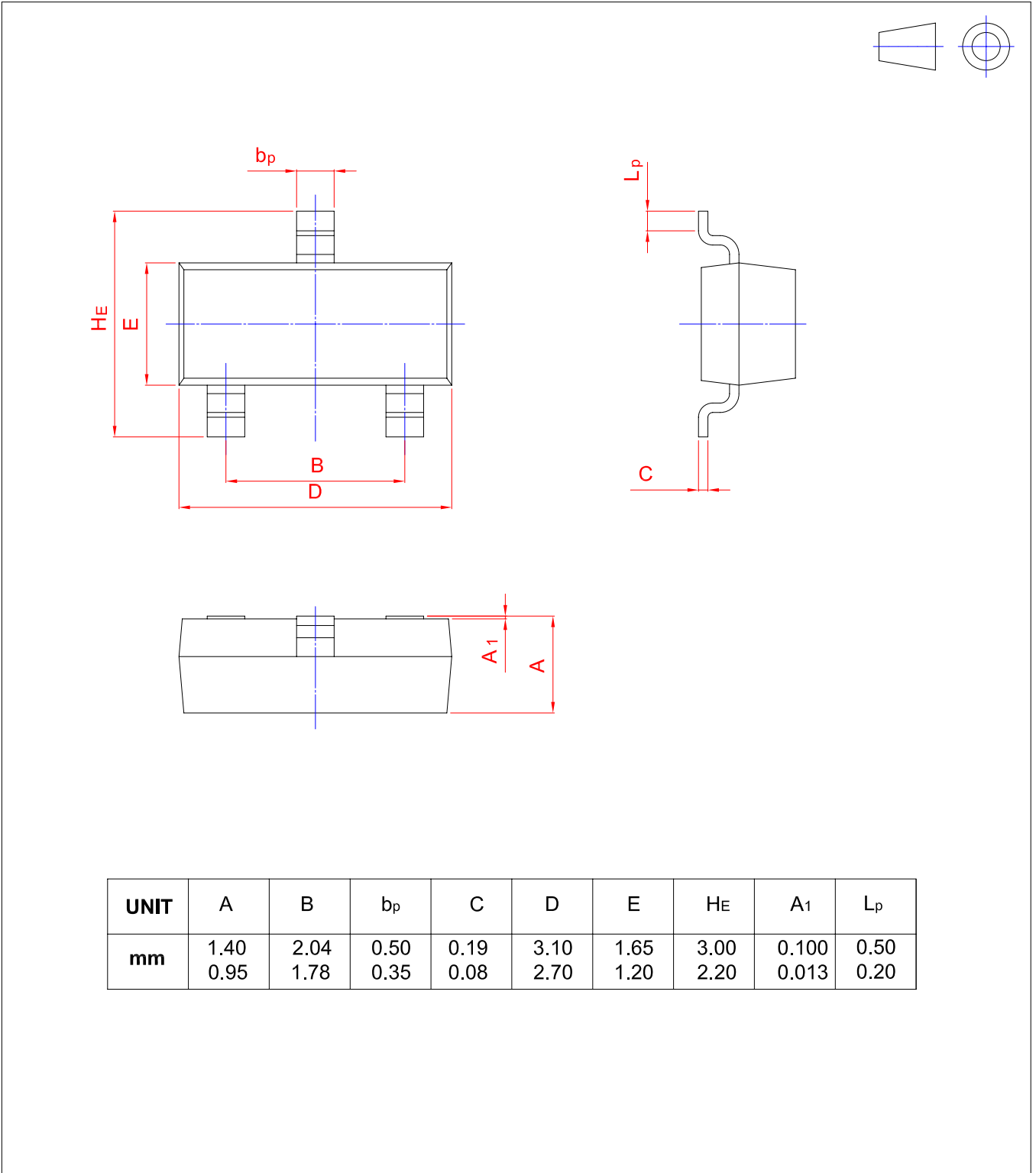
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PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



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