



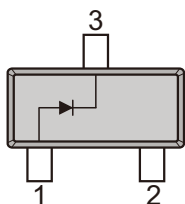
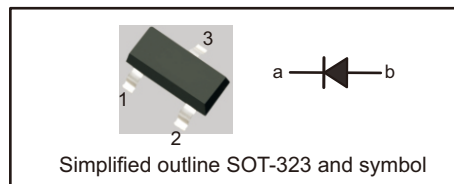
Switching Diodes

FEATURES

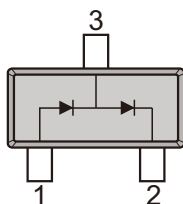
- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance

PINNING

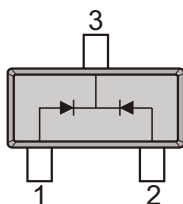
PIN	DESCRIPTION
a	Cathode
b	Anode



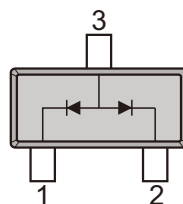
BAS70AWGA



BAS70SEWGA



BAS70CCWGA



BAS70CAWGA

Maximum Ratings @Ta=25°C

Parameter	Symbols	BAS70	Units
DC Voltage	V_R	70	V
Average Rectified Forward Current	I_F	70	mA
Non-Repetitive Peak Forward Surge Current @ t = 8.3ms	I_{FSM}	100	mA
Power Dissipation	P_D	200	mW
Typical Thermal Resistance (1)	R_{thJA}	500	°C/W
Junction Temperature	T_j	125	°C
Storage Temperature	T_{stg}	-55 ~ +150	°C

Electrical Characteristics @Ta=25°C

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R=10\mu A$	70		V
Forward voltage	V_F	$I_F=1mA$		0.41	V
		$I_F=15mA$		1	V
Reverse current	I_R	$V_R=50V$		100	nA
Capacitance between terminals	C_T	$V_R=0V, f=1MHz$		2	pF
Reverse recovery time	t_{rr}	$I_F=I_R=10mA,$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$		5	ns



Fig.1 Power Derating Curve

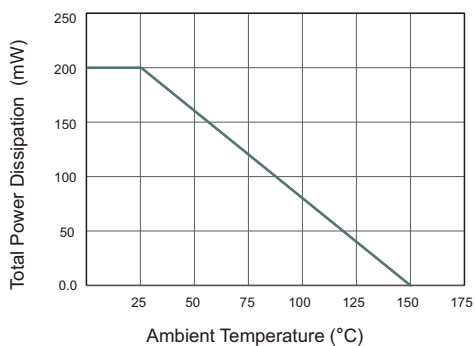


Fig.2 Typical Reverse Characteristics

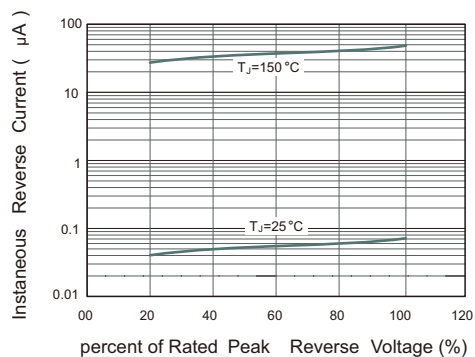


Fig.3 Typical Instaneous Forward Characteristics

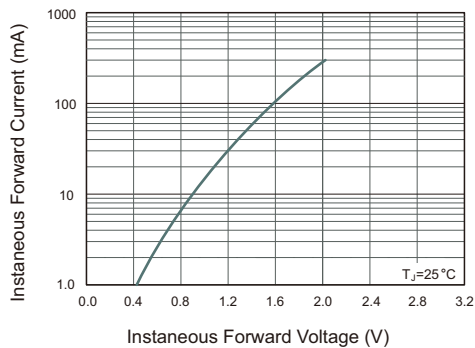
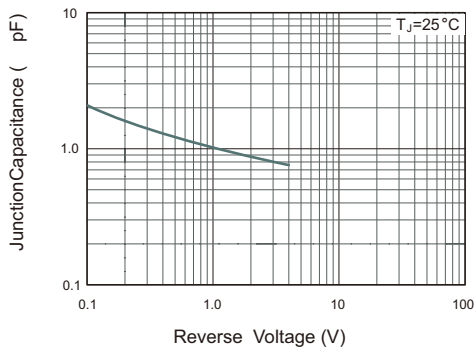
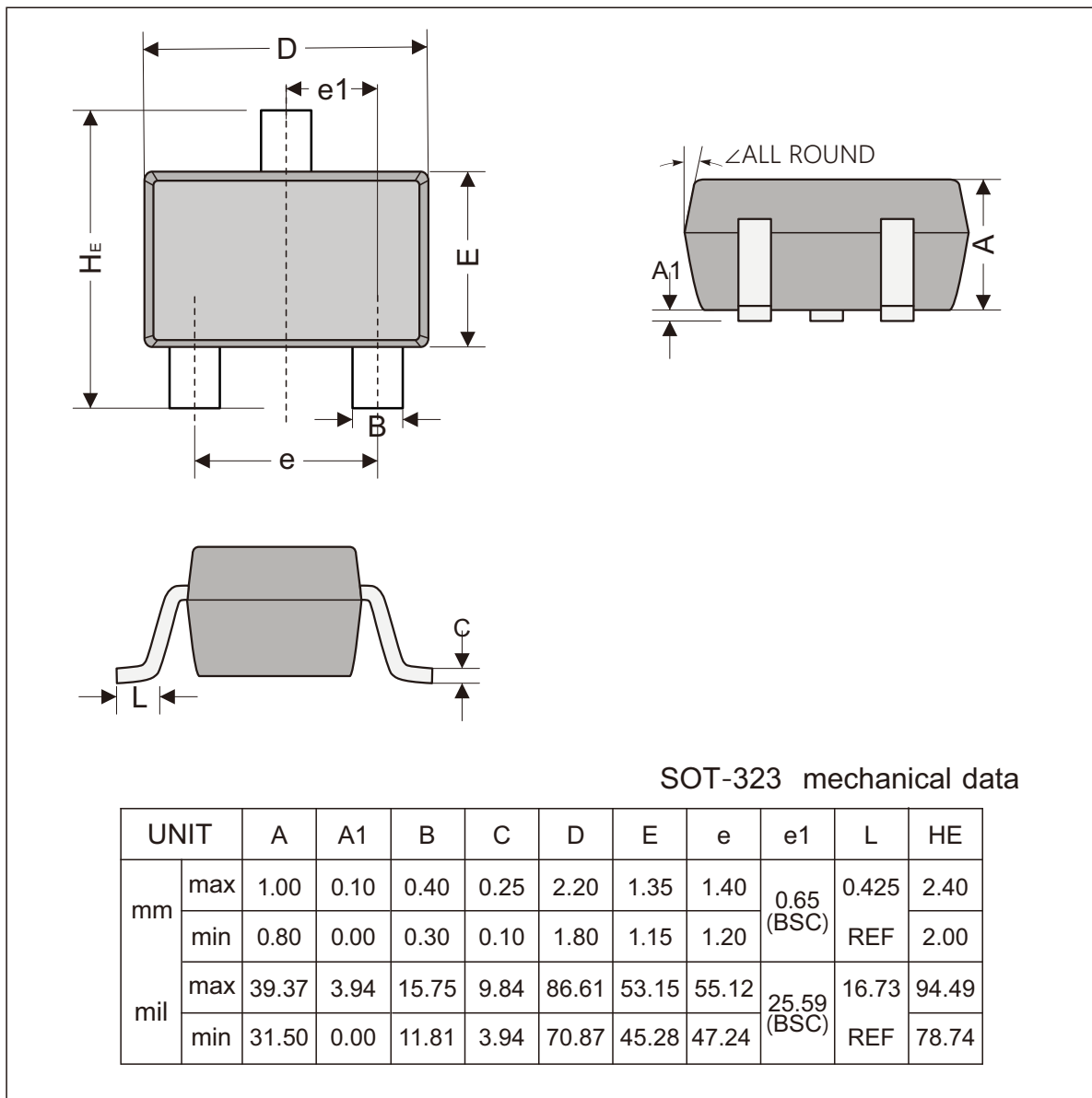


Fig.4 Typical Junction Capacitance

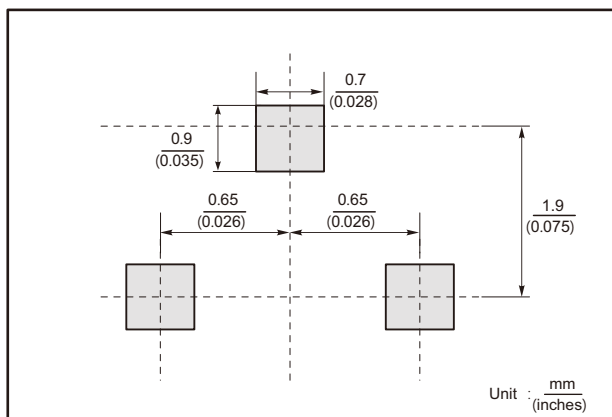




SOT-323 Package Outline Dimensions



The recommended mounting pad size



Marking

Type number	Marking code
BAS70AWGA	7A
BAS70SEWGA	7SE
BAS70CCWGA	7CC
BAS70CAWGA	7CA



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