

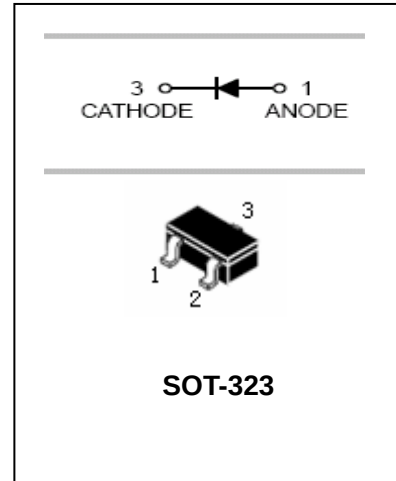
Surface Mount Switching Diode **BAS19W/BAS20W/BAS21W**

FEATURES

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



Lead-free



APPLICATIONS

- For general purpose switching applications.

ORDERING INFORMATION

Type No.	Marking	Package Code
BAS19W	KA8	SOT-323
BAS20W	KT2	SOT-323
BAS21W	KT3	SOT-323

MAXIMUM RATING @ Ta=25°C unless otherwise specified

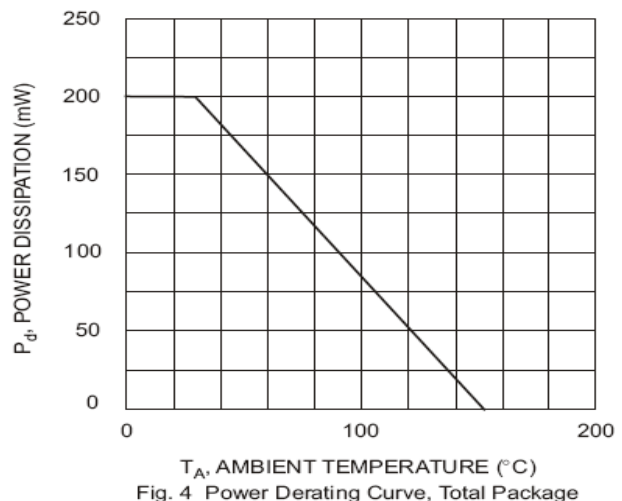
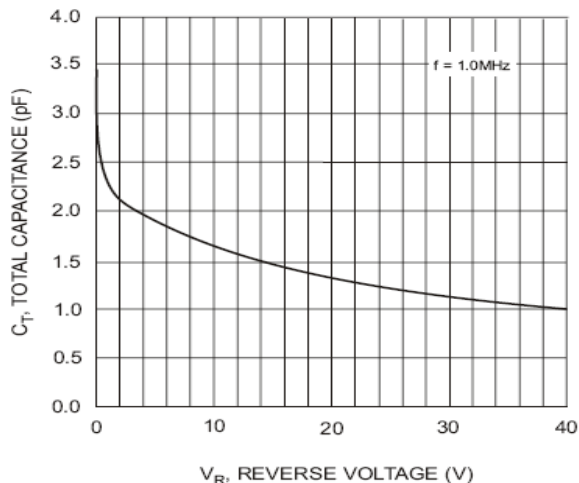
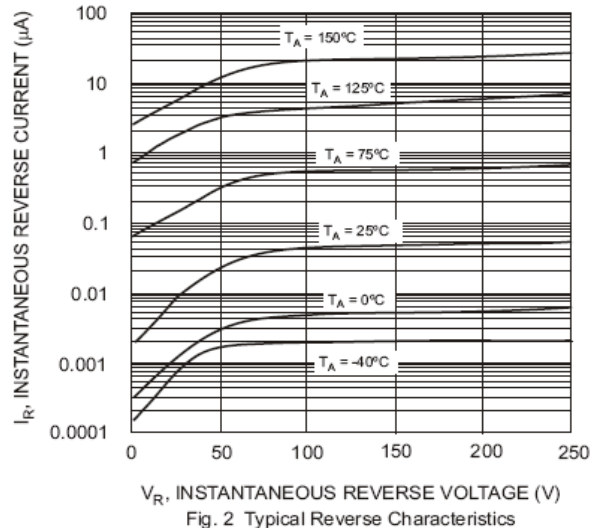
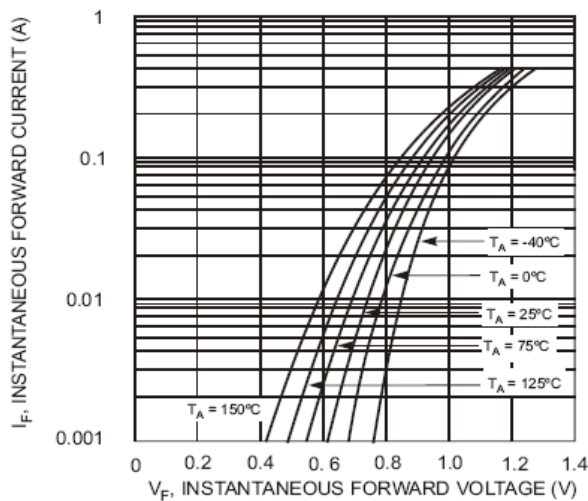
Parameter	Symbol	BAS19W	BAS20W	BAS21W	Unit
Repetitive Peak reverse voltage	V_{RRM}	120	200	250	V
Diode reverse voltage	V_R	100	150	200	V
RMS Reverse Voltage	$V_{R(RMS)}$	71	106	141	V
Forward continuous Current	I_F	400			mA
Average rectified output current	I_O	200			mA
Forward Surge Current t=1.0μS t=1.0S	I_{FSM}	2.5 0.5			A
Power Dissipation	P_d	200			mW
Junction temperature	T_j	150			°C
Storage temperature range	T_{stg}	-65-+150			°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

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Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage BAS19W BAS20W BAS21W	$V_{(BR)R}$	$I_R = 100\mu A$	120 200 250		V
Reverse voltage leakage current BAS19W BAS20W BAS21W	I_R	$V_R = 100V$ $V_R = 150V$ $V_R = 200V$		100	nA
Forward voltage	V_F	$I_F = 100mA$ $I_F = 200mA$		1.0 1.25	V
Diode capacitance	C_D	$V_R = 0V$ $f = 1MHz$		5	pF
Reverse recovery time	t_{rr}	$I_F = I_R = 30mA$ $R_L = 100\Omega$		50	ns

TYPICAL CHARACTERISTICS @ $T_a = 25^\circ C$ unless otherwise specified

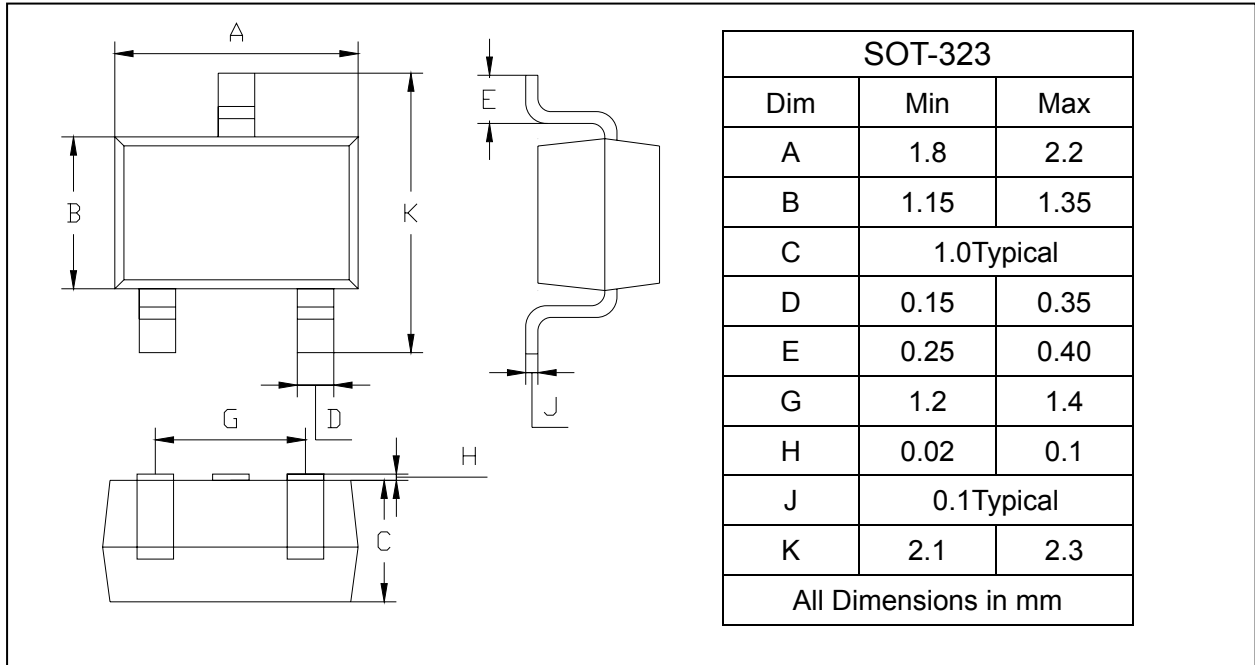


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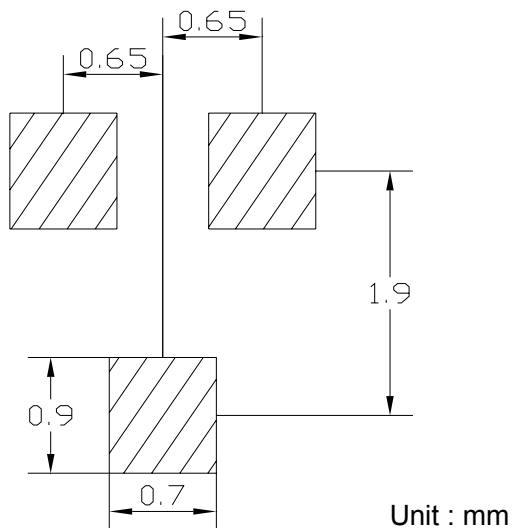
PACKAGE OUTLINE

Plastic surface mounted package

SOT-323



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
BAS19W/BAS20W/BAS21W	SOT-323	3000/Tape&Reel