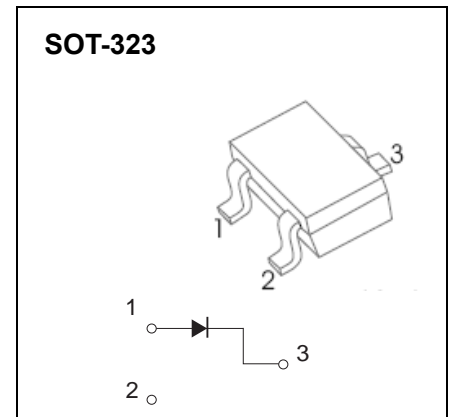


SWITCHING DIODE

FEATURES

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance
- **Pb-Free package is available**
RoHS product for packing code suffix "G"
Halogen free product for packing code suffix "H"
- **Moisture Sensitivity Level 1**



Marking: **BAS19W KA8 BAS21W KT3**
BAS20W KT2

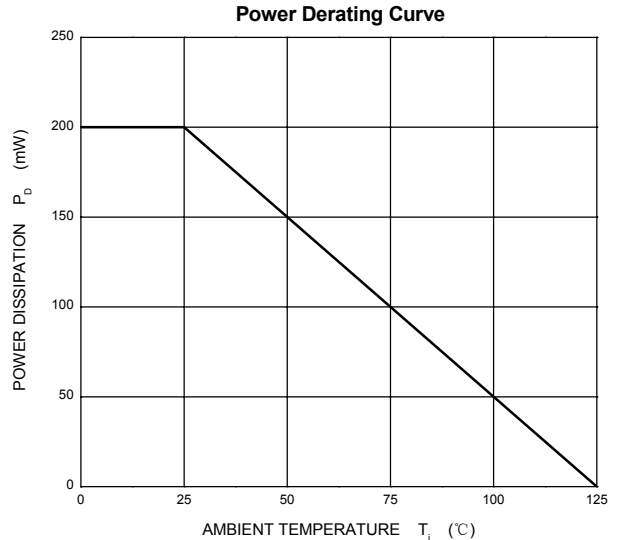
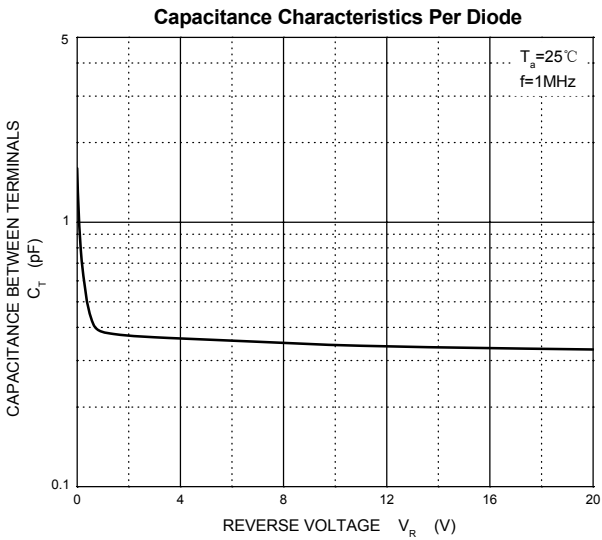
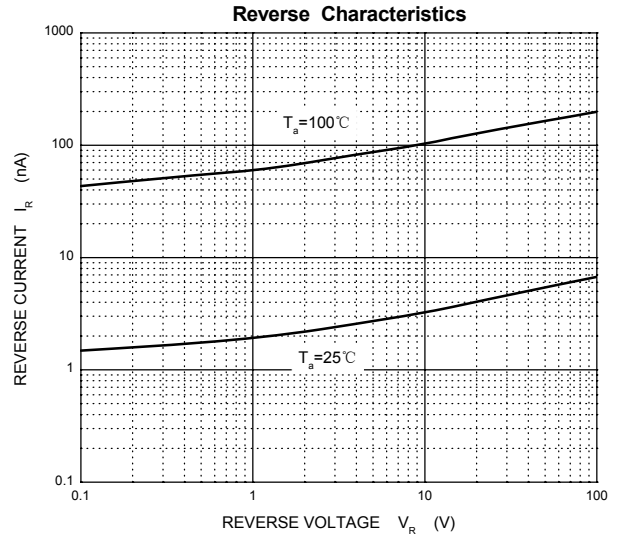
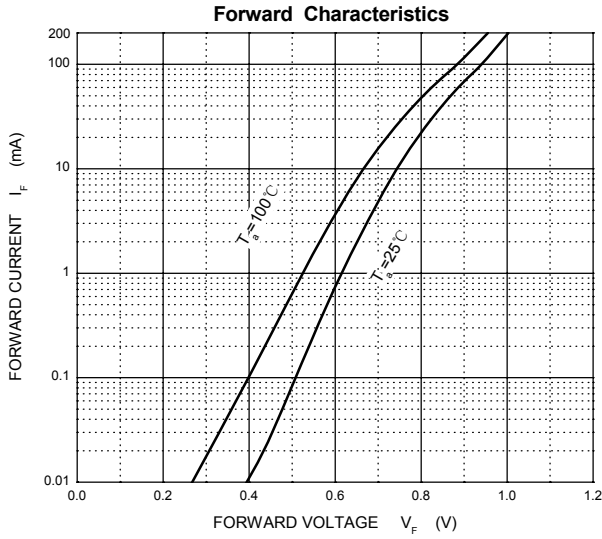
Maximum Ratings @Ta=25°C

Parameter	Symbol	BAS19W	BAS20W	BAS21W	Unit
Peak Repetitive Reverse Voltage DC Blocking Voltage	V_{RRM} V_R	100	150	250	V
Average Rectified Output Current	I_O	200			mA
Power Dissipation	P_d	200			mW
Thermal Resistance. Junction to Ambient	$R_{\theta JA}$	625			°C/W
Junction Temperature	T_J	150			°C
Storage Temperature Range	T_{STG}	-55~+150			°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

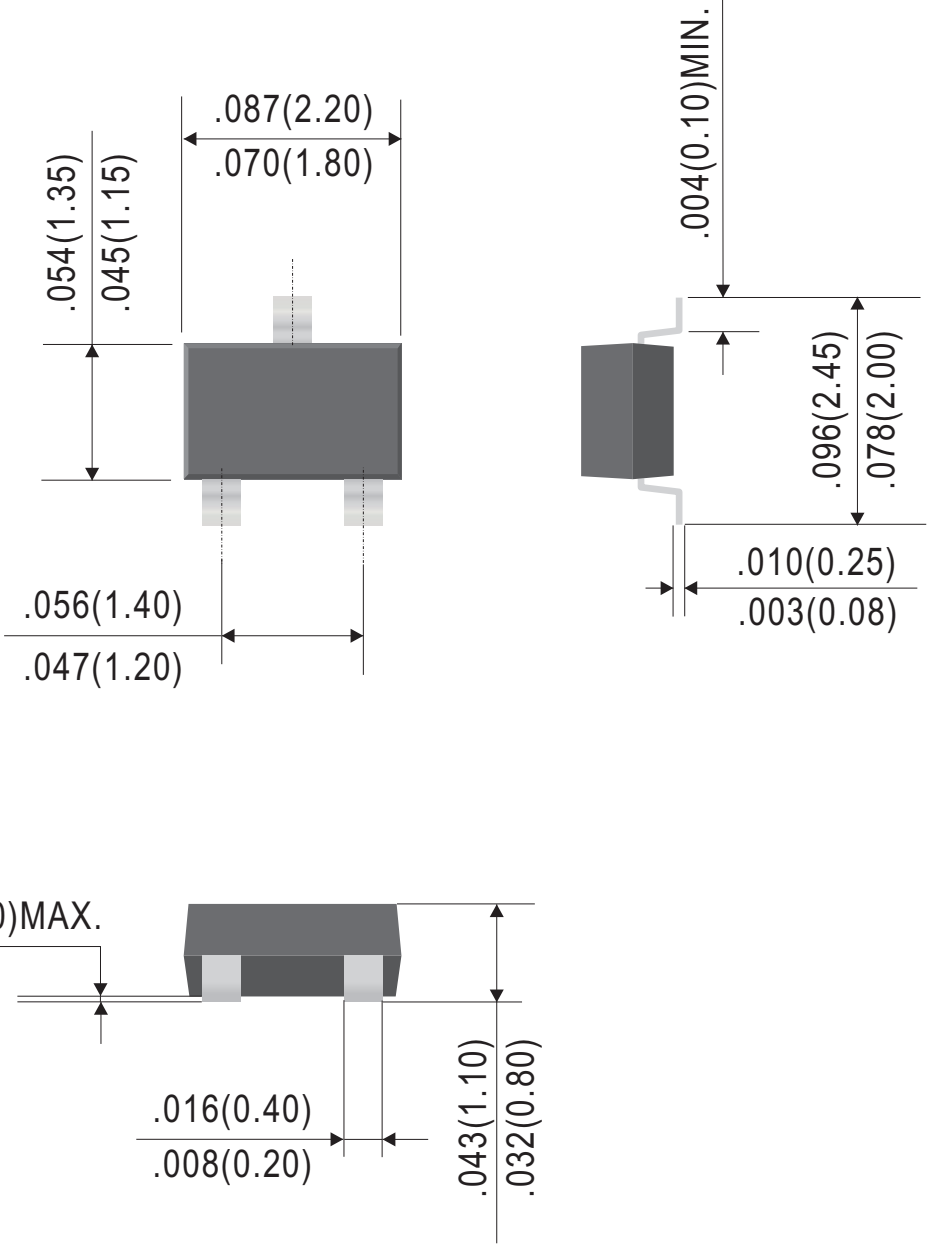
Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R = 100\mu A$	100 150 250		V
Reverse voltage leakage current	I_R	$V_R = 100V$ $V_R = 150V$ $V_R = 200V$		0.1	μA
Forward voltage	V_F	$I_F = 100mA$ $I_F = 200mA$		1 1.25	V
Diode capacitance	C_D	$V_R = 0V, f = 1MHz$		5	pF
Reverse recovery time	t_{rr}	$I_F = I_R = 30mA, I_{rr} = 0.1 \times I_R$		50	ns

Typical Characteristics



Outline Drawing

SOT-323



Dimensions in inches and (millimeters)

Ordering Information:

Device PN	Packing
Part Number-T ⁽¹⁾ G ⁽²⁾ -WS	Tape&Reel: 3 Kpcs/Reel

Note: (1) Packing code, Tape&Reel Packing

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

*****Disclaimer*****

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