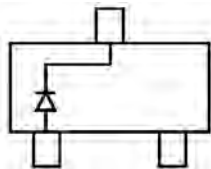
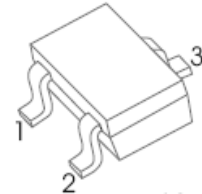


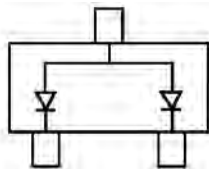
FEATURES

- Low Forward Voltage
- Fast Switching
- **Pb-Free package is available**
RoHS product for packing code suffix "G"
Halogen free product for packing code suffix "H"
- **Moisture Sensitivity Level 1**

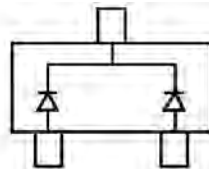
SOT-323



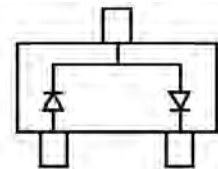
BAS40W MARKING: 43



BAS40W-06 MARKING: 46



BAS40W-05 MARKING: 45



BAS40W-04 MARKING: 44

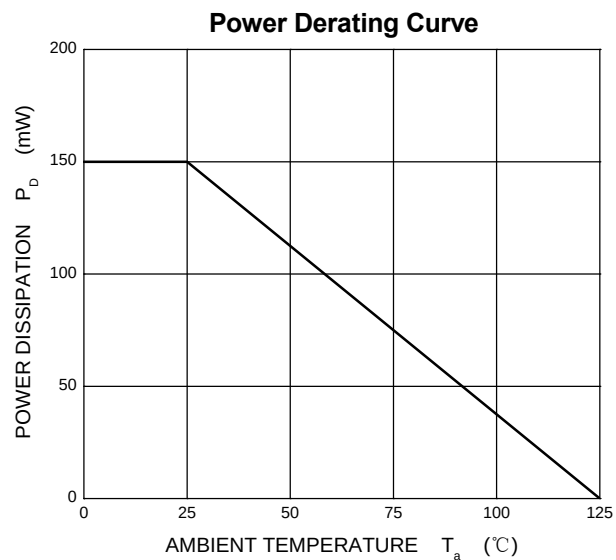
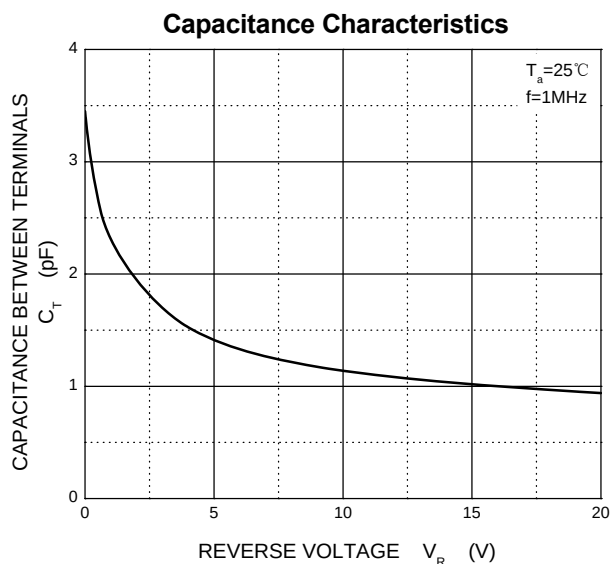
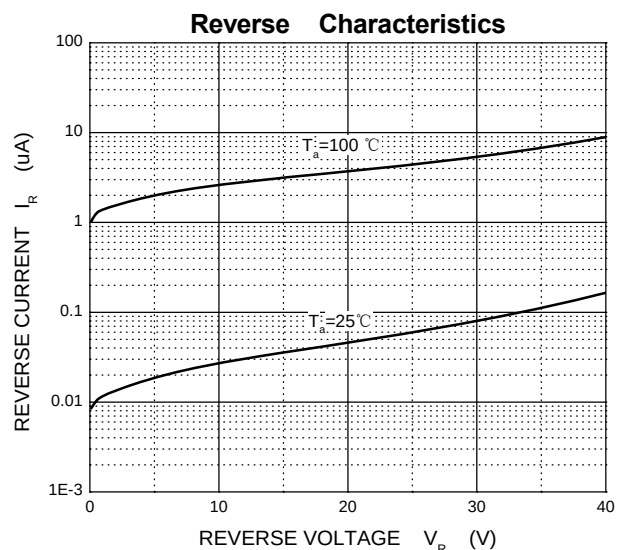
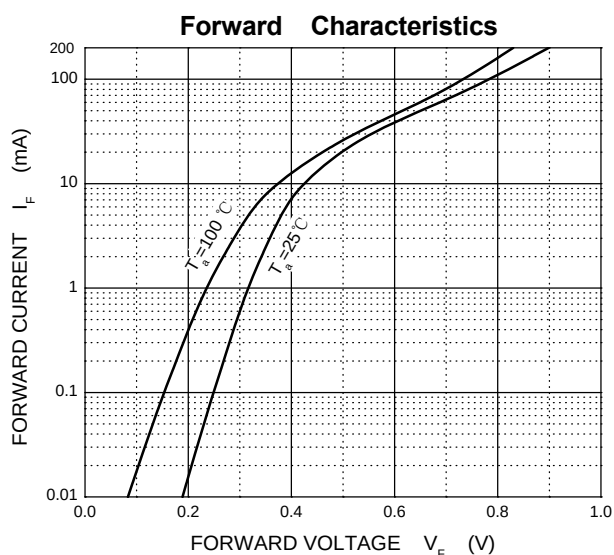
Maximum Ratings @Ta=25°C

Parameter	Symbol	Limit	Unit
Peak repetitive peak reverse voltage	V_{RRM}	40	V
Working peak reverse voltage	V_{RWM}		
DC blocking voltage	V_R		
Forward continuous current	I_{FM}	200	mA
PeakForwardSurgeCurrent(t<10ms)	I_{FSM}	600	mA
Power dissipation	P_D	150	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	667	°C/W
Operating temperature	T_J	-55~+125	°C
Storage temperature range	T_{STG}	-55~+150	°C

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

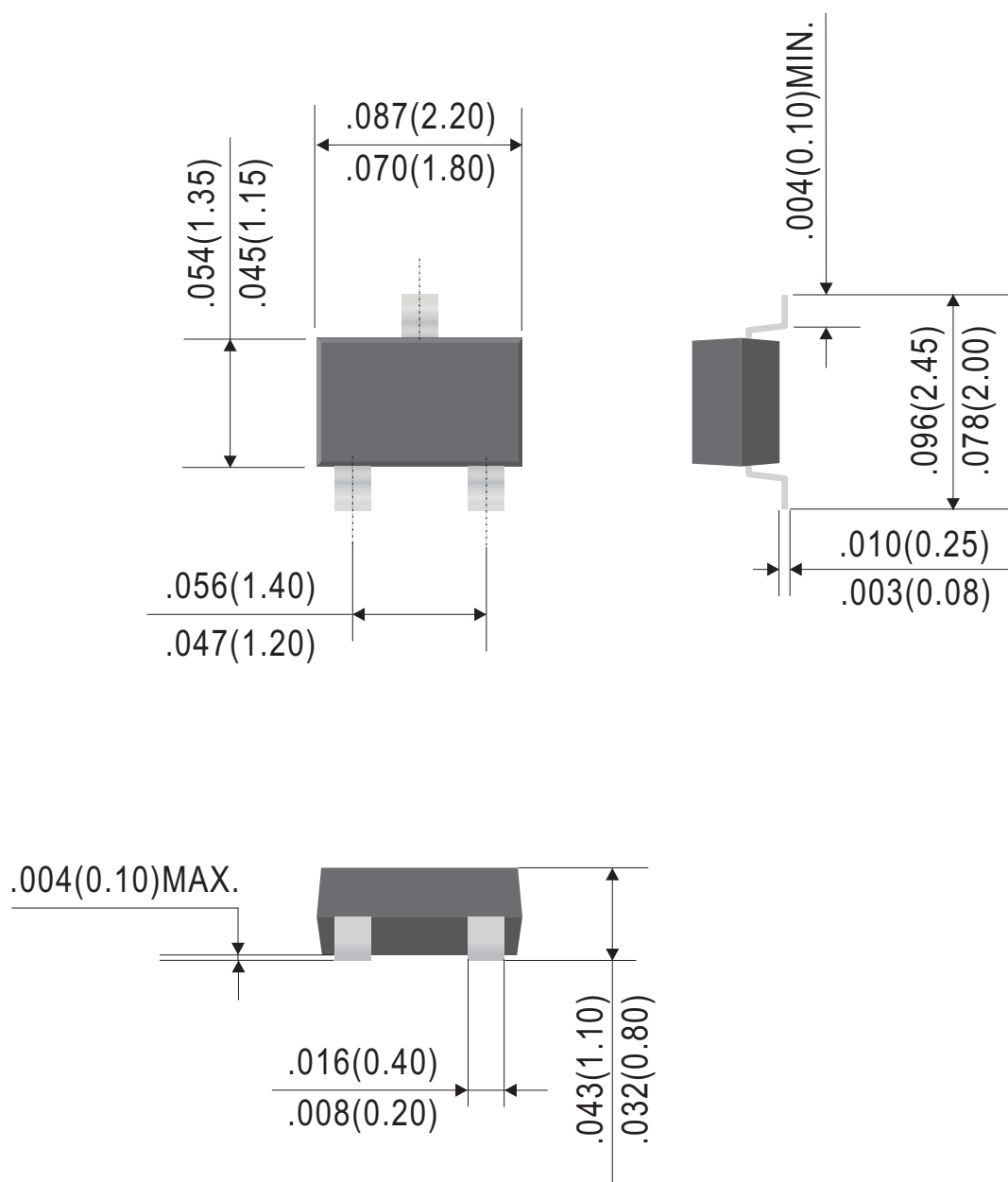
Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R = 10 \mu A$	40		V
Reverse voltage leakage current	I_R	$V_R = 30V$		200	nA
Forward voltage	V_F	$I_F = 1mA$ $I_F = 40mA$		380 1000	mV
Diode capacitance	C_D	$V_R = 0, f = 1MHz$		5	pF
Reverse recovery time	t_{rr}	$I_{rr} = 1mA, I_R = I_F = 10mA$ $R_L = 100\Omega$		5	ns

Typical Characteristics



Outline Drawing

SOT-323



Dimensions in inches and (millimeters)

Rev.D

Ordering Information:

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

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

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

*****Disclaimer*****

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