

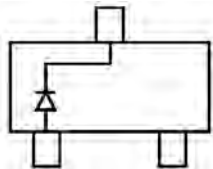
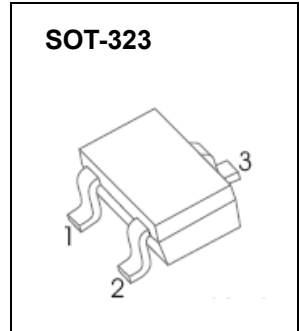


# SCHOTTKY BARRIER DIODE

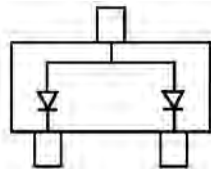


## FEATURES

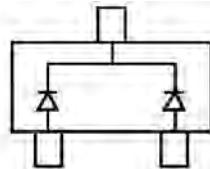
- Low Forward Voltage
- Fast Switching



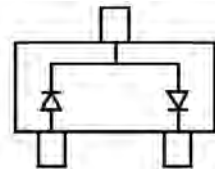
BAS40W MARKING: 43



BAS40W-06 MARKING: 46



BAS40W-05 MARKING: 45



BAS40W-04 MARKING: 44

## Maximum Ratings @Ta=25°C

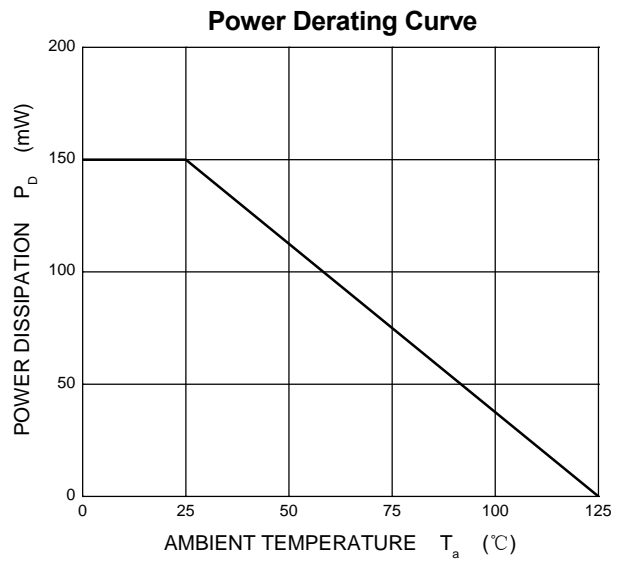
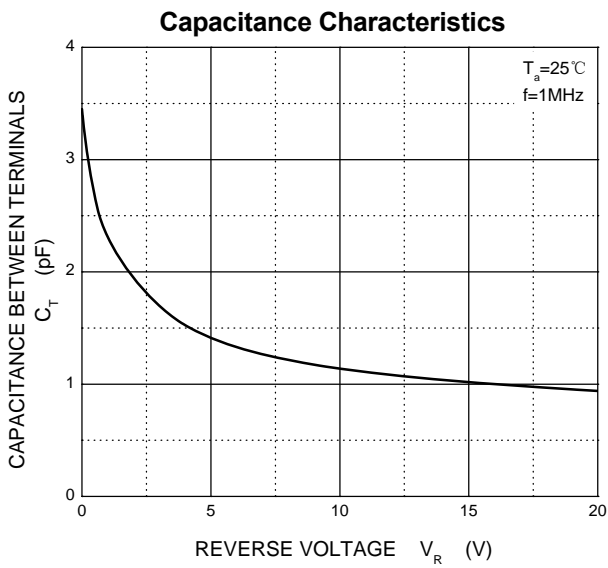
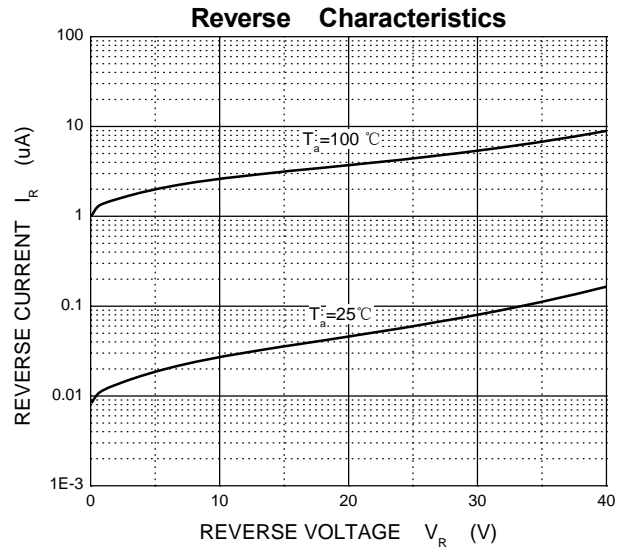
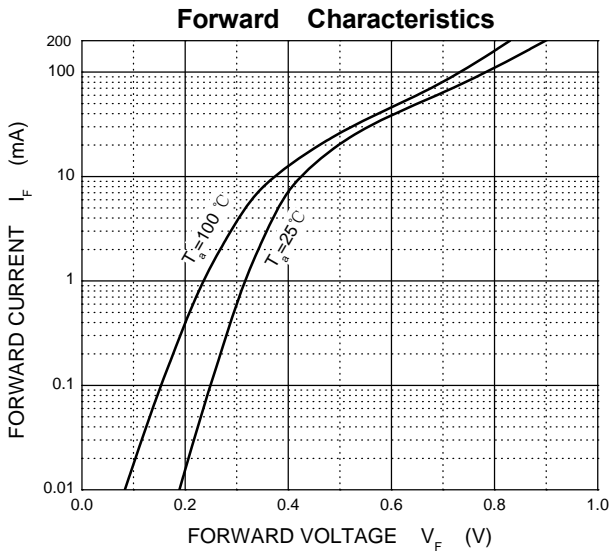
Parameter	Symbol	Limit	Unit
Peak repetitive peak reverse voltage	$V_{RRM}$	40	V
Working peak reverse voltage	$V_{RWM}$		
DC blocking voltage	$V_R$		
Forward continuous current	$I_{FM}$	200	mA
Power dissipation	$P_D$	150	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	667	°C/W
Junction temperature	$T_J$	≤ 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

# DEVICE CHARACTERISTICS

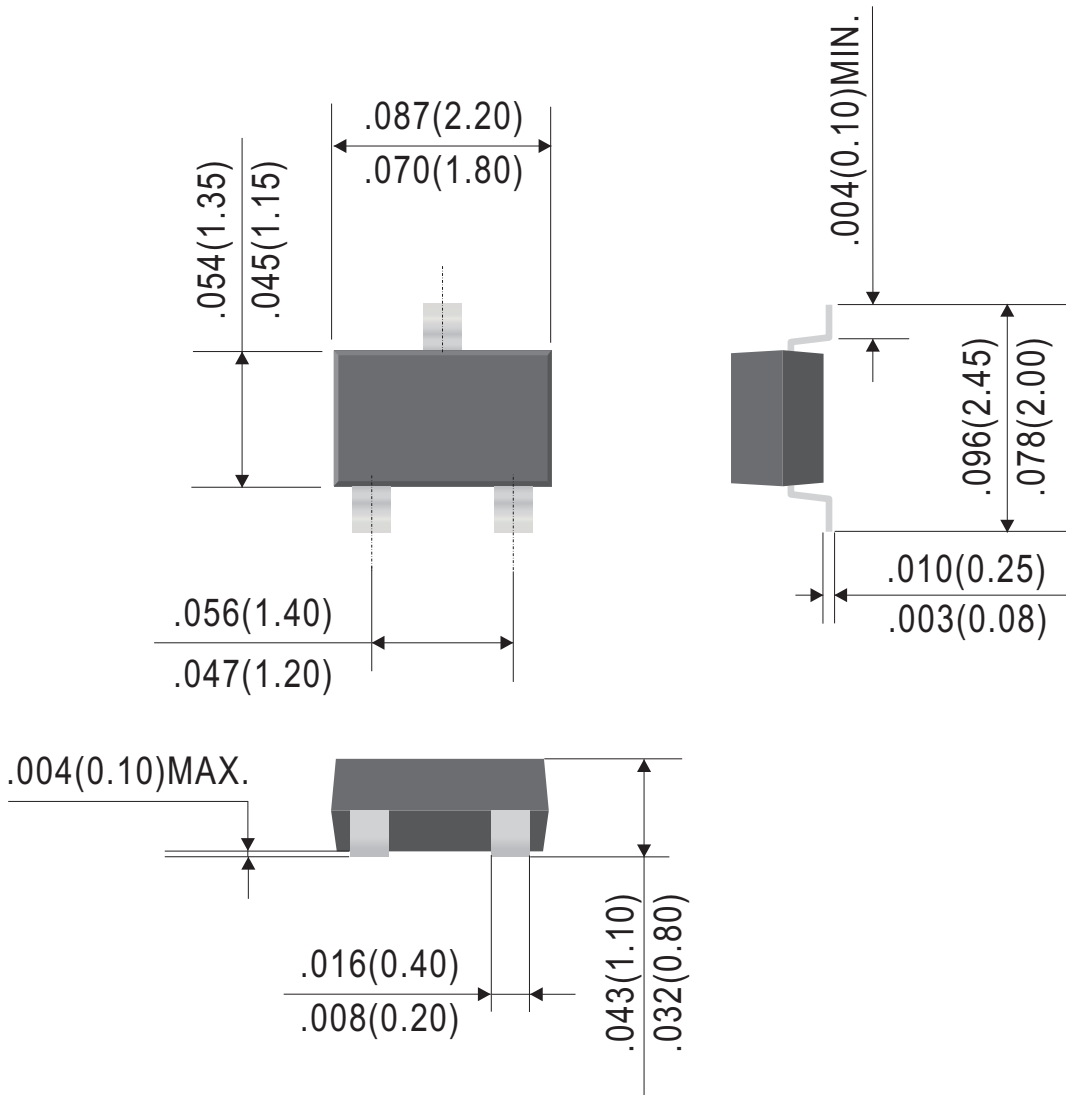
BAS40W/-04/-05/-06



# PACKAGE OUTLINE & DIMENSIONS

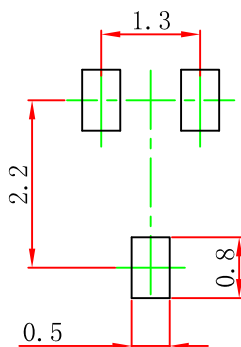
BAS40W/-04/-05/-06

## SOT-323 Package Outline Dimensions



Dimensions in inches and (millimeters)

## SOT-323 Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance:  $\pm 0.05$  mm.
3. The pad layout is for reference purposes only.