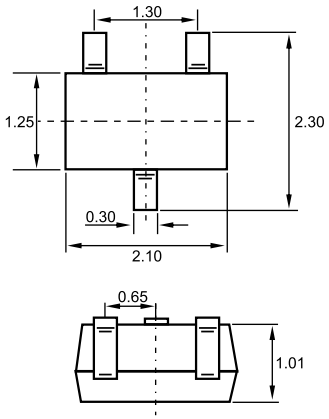
BAS40W/-04/-05/-06

Schottky Diode

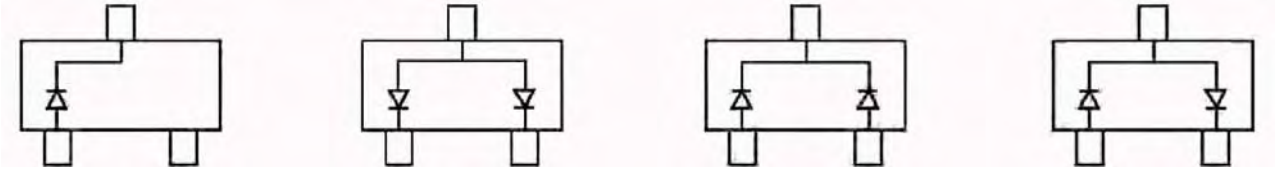
SOT-323



Dimensions in inches and (millimeters)

Features

- ✧ Low Forward Voltage
- ✧ Fast Switching



BAS40W MARKING: 43• **BAS40W-06 MARKING: 46** **BAS40W-05 MARKING：45** **BAS40W-04 MARKING：44**

Maximum Ratings @T_A=25℃

Parameter	Symbol	Limits	Unit
Peak repetitive peak reverse voltage Working peak reverse voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	40	V
Forward continuous Current	I_{FM}	200	mA
Power Dissipation	P_D	150	mW
Thermal Resistance. Junction to Ambient Air	$R_{\theta JA}$	833	℃/W
Junction temperature	T_J	125	℃
Storage temperature range	T_{STG}	-65-125	℃

ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)}$	I_R= 10μA	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=100Ω		5	nS

Typical Characteristics

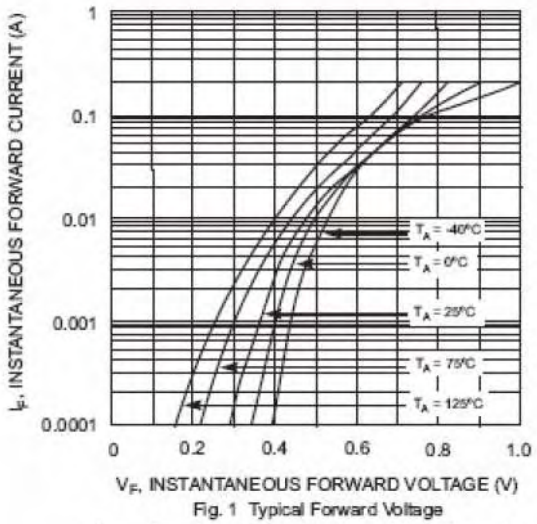


Fig. 1 Typical Forward Voltage

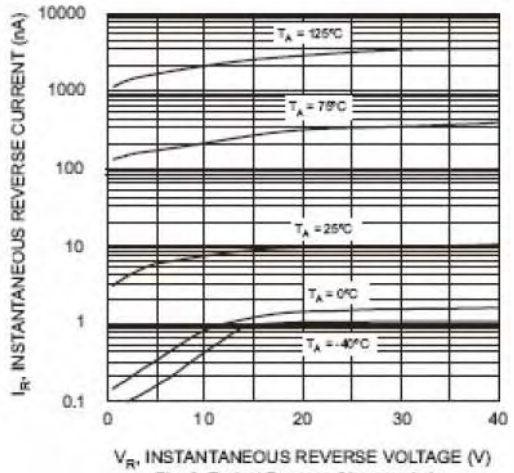


Fig. 2 Typical Reverse Characteristics

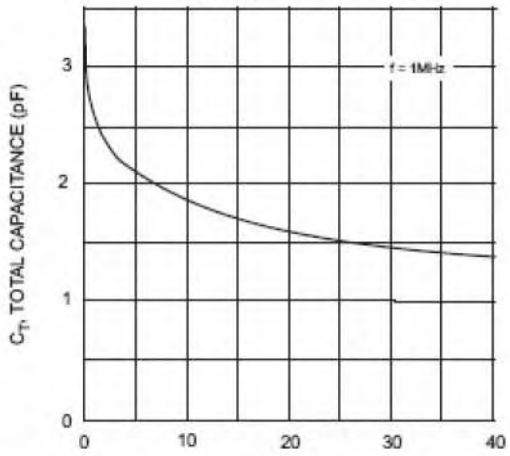


Fig. 3 Typical Capacitance

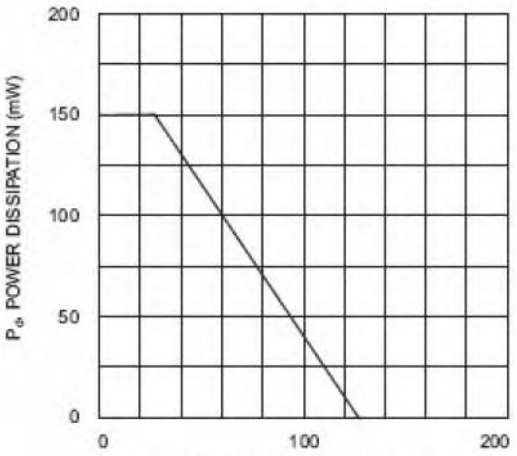


Fig. 4 Power Derating Curve, Total Package