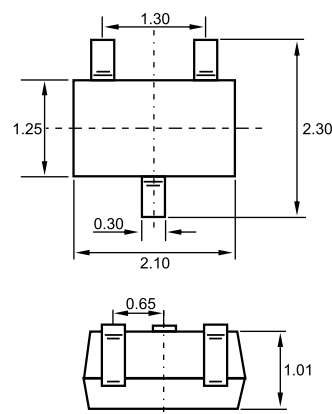
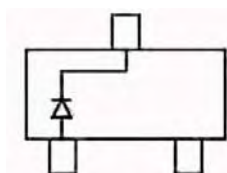
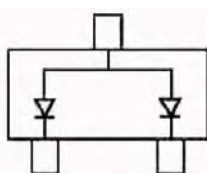



SOT-323


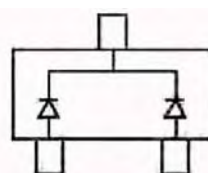
Dimensions in inches and (millimeters)



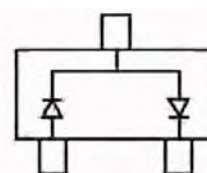
BAS40W MARKING: 43•



BAS40W-06 MARKING: 46



BAS40W-05 MARKING: 45



BAS40W-04 MARKING: 44

Maximum Ratings @T_A=25°C

Parameter	Symbol	Limits	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 Air	$R_{\theta JA}$	833	°C/W
Junction temperature	T_J	125	°C
Storage temperature range	T_{STG}	-65-125	°C

ELECTRICAL CHARACTERISTICS (T_{amb}=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

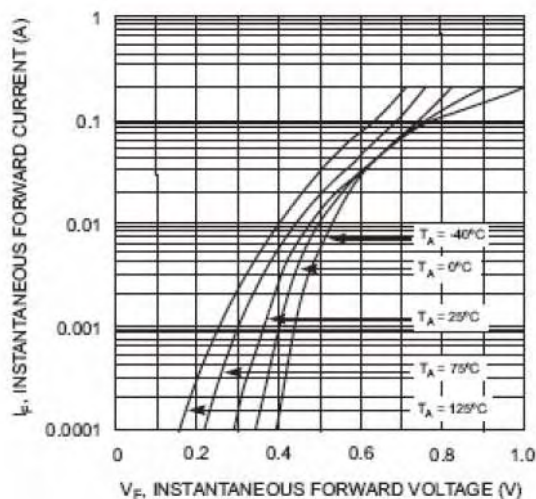


Fig. 1 Typical Forward Voltage

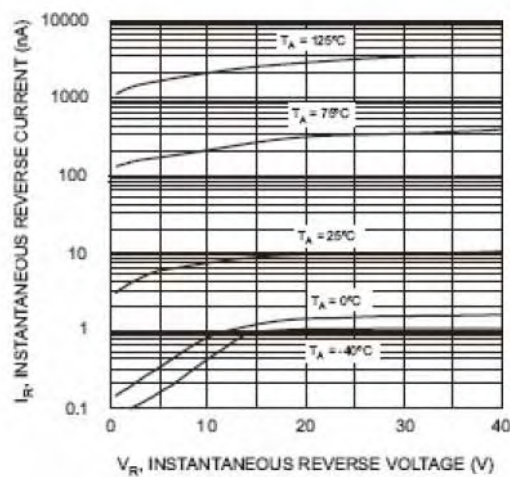


Fig. 2 Typical Reverse Characteristics

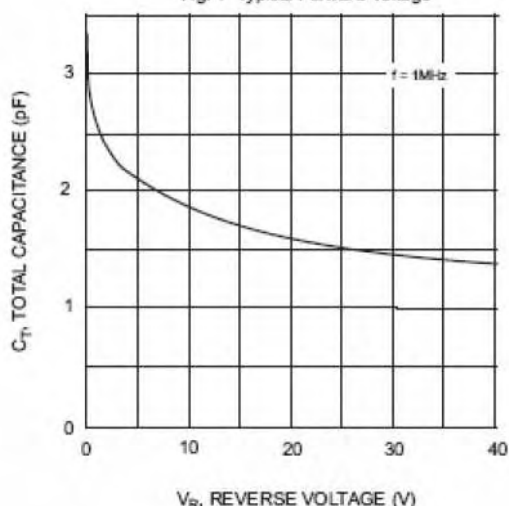


Fig. 3 Typical Capacitance

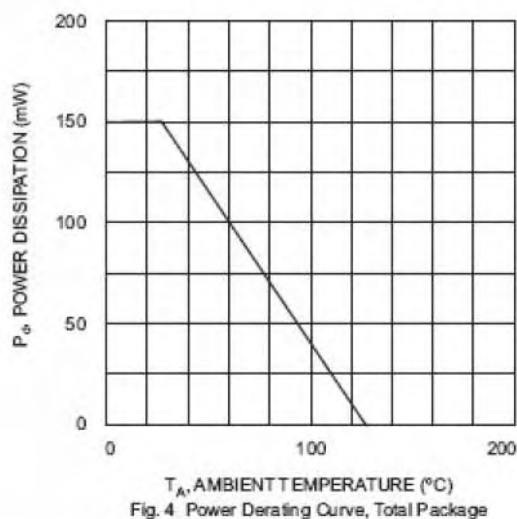


Fig. 4 Power Derating Curve, Total Package

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