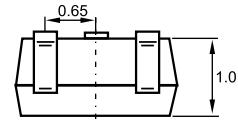
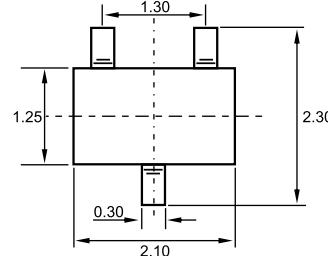
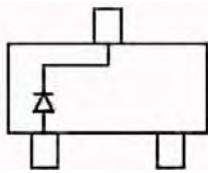
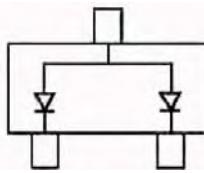


SOT-323


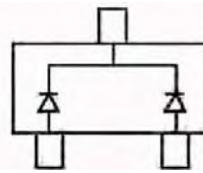
Dimensions in inches and (millimeters)



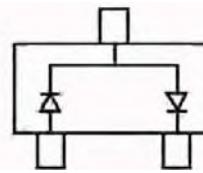
BAS40W MARKING: 43•



BAS40W-06 MARKING: 46



BAS40W-05 MARKING: 45



BAS40W-04 MARKING: 44

Maximum Ratings @ $T_A=25^\circ\text{C}$

Parameter	Symbol	Limits		Unit
Peak repetitive peak reverse voltage	V_{RRM}			
Working peak reverse voltage	V_{RWM}	40		V
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 (Tamb=25°C unless otherwise specified)

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

Typical Characteristics

