

VII. Switching Diode

(c). SMD Type (SOD-323) BAS21H

(Package: SOD-323)

<p>FEATURES</p> <ul style="list-style-type: none"> • Fast switching speed. • Ideally suited for automated assembly processes. • For general purpose switching applications. • Plastic material UL recognition flammability classification 94V-0. <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> • Case : Molded plastic, SOD-323 • Mounting position : Any • Polarity : Color band denotes cathode end <p>DEVICE MARKING CODE</p> <ul style="list-style-type: none"> • BAS21H : JS 	<p>Case: SOD-323 Dimensions in millimeters</p>
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Ratings & Electrical Characteristics

Characteristic	Symbol	Limits	Unit
DC reverse voltage	V_R	250	Volts
Minimum reverse breakdown voltage (@ $I_R=100\mu A$)	$V_{(BR)R}$	250	Volts
Repetitive peak reverse voltage	V_{RRM}	250	Volts
Forward voltage (Max)	V_F	$I_F=100mA$ 1.00	Volts
		$I_F=200mA$ 1.25	
Forward continuous current	I_o	200	mA
Non-Repetitive peak forward surge current	I_{FSM}	625	mA
Maximum reverse leakage current	I_R	$V_R =200V$ 0.1	μA
		$V_R =200V, T_j=150$ 100	
Power dissipation	P_D	200	mW
Diode capacitance (Max) $V_R=0V, f=1.0MHz$	C_D	5	PF
Reverse recovery time (Max) $I_F=I_R=30mA, R_L=100$	T_{rr}	50	ns
Thermal resistance, junction to ambient air	R_{th-JA}	635	/W
Operating junction & storage temperature range	T_j, T_{stg}	-55 to +150	

Ratings and Characteristic Curves of BAS21H

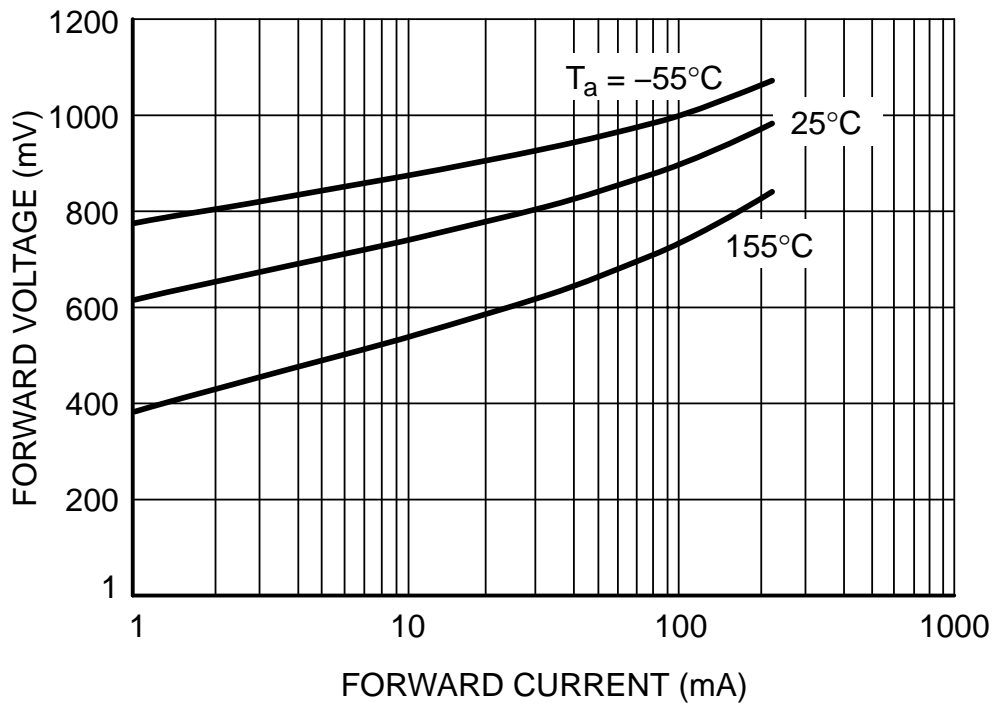


Figure 1. Forward Characteristics

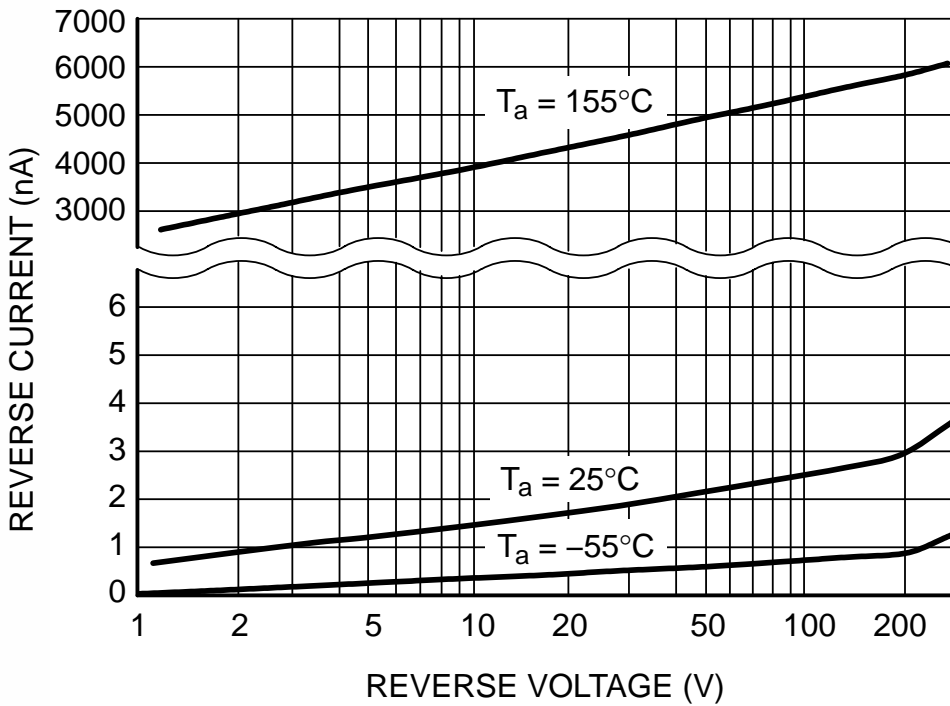


Figure 2. Reverse Characteristics