VII. Switching Diode

(c). SMD Type (SOD-323)

BAS20H (Package: SOD-323)

FEATURES

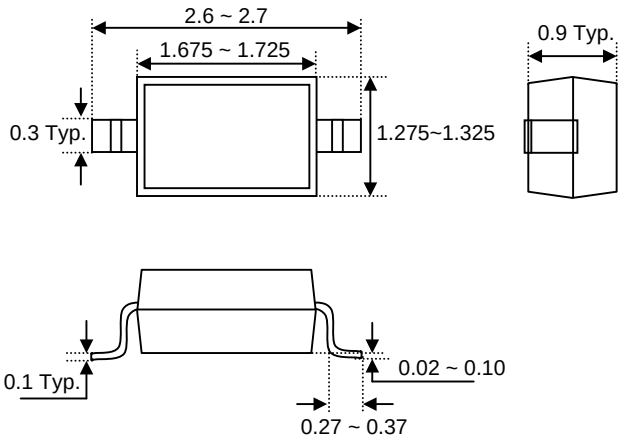
- Fast switching speed.
- Ideally suited for automated assembly processes.
- For general purpose switching applications.
- Plastic material UL recognition flammability classification 94V-0.

MECHANICAL DATA

- Case : Molded plastic, SOD-323
- Mounting position : Any
- Polarity : Color band denotes cathode end

DEVICE MARKING CODE

- BAS20H : JR



Case: SOD-323
Dimensions in millimeters

Ratings & Electrical Characteristics

Characteristic		Symbol	Limits	Unit
DC reverse voltage		V_R	200	Volts
Minimum reverse breakdown voltage (@ I_R=100μA)		$V_{(BR)R}$	250	Volts
Repetitive peak reverse voltage		V_{RRM}	200	Volts
Forward voltage (Max)	I_F=100mA I_F=200mA	V_F	1.00 1.25	Volts
Forward continuous current		I_o	200	mA
Non-Repetitive peak forward surge current		I_{FSM}	625	mA
Maximum reverse leakage current	V_R =200V V_R =200V, Tj=150℃	I_R	1.0 100	μA
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=100Ω		Trr	50	ns
Thermal resistance, junction to ambient air		Rth-JA	635	℃/W
Operating junction & storage temperature range		Tj, Tstg	-55 to +150	℃

Ratings and Characteristic Curves of BAS20H

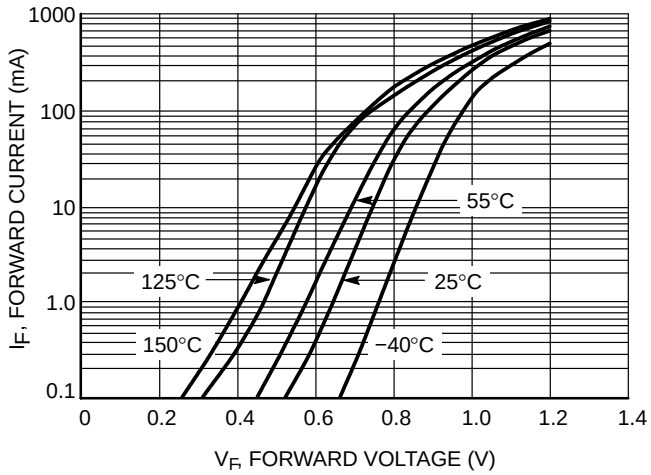


Figure 1. Forward Characteristics

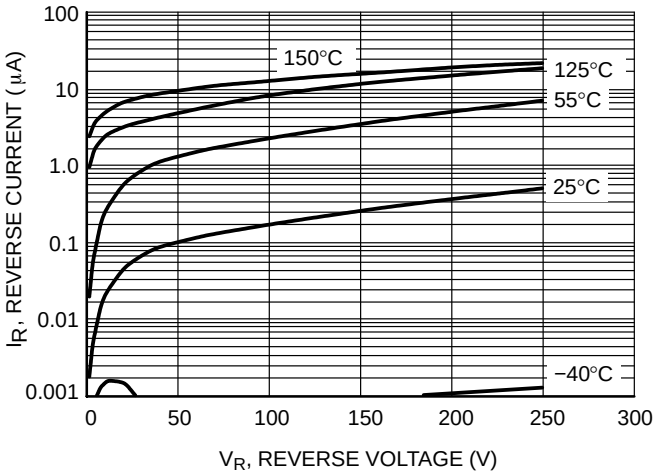


Figure 2. Reverse Characteristics

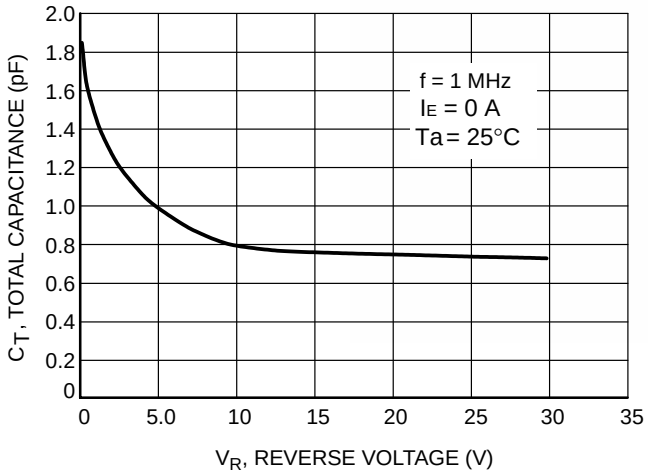


Figure 3. Typical Capacitance vs Reverse Voltage