



High Voltage Switching Diodes

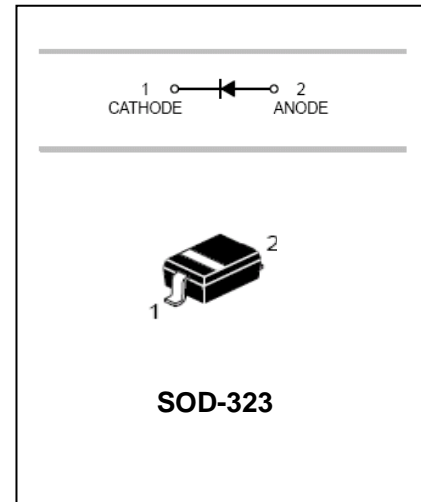
BAS20H

FEATURES

- Fast switching
- Designed for surface mount application
- Plastic material-UL recognition flammability classification 94V-0



Lead-free



SOD-323

APPLICATIONS

- Surface mount fast switching diode

ORDERING INFORMATION

Type No.	Marking	Package Code
BAS20H	JR	SOD-323

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Continuous Reverse Voltage	V_R	200	V
Repetitive Peak Reverse Voltage	V_{RRM}	200	V
Forward Continuous Current	I_F	200	mA
Peak forward surge current	I_{FSM}	625	mA
Power Dissipation	P_d	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	635	°C/W
Junction and Storage Temperature Range	T_j, T_{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	250	-	V	$I_R=100\mu A$
Forward Voltage	V_F	-	1000 1250	mV	$I_F=100mA$ $I_F=200mA$
Reverse Current	I_R	-	1.0 100	μA	$V_R=200V$ $V_R=200V, T_J=150^\circ C$
Diode Capacitance	C_D	-	5	pF	$V_R=0, f=1.0MHz$
Reverse Recovery Time	t_{rr}	-	50	ns	$I_F=I_R=30mA, R_L=100\Omega$

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TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

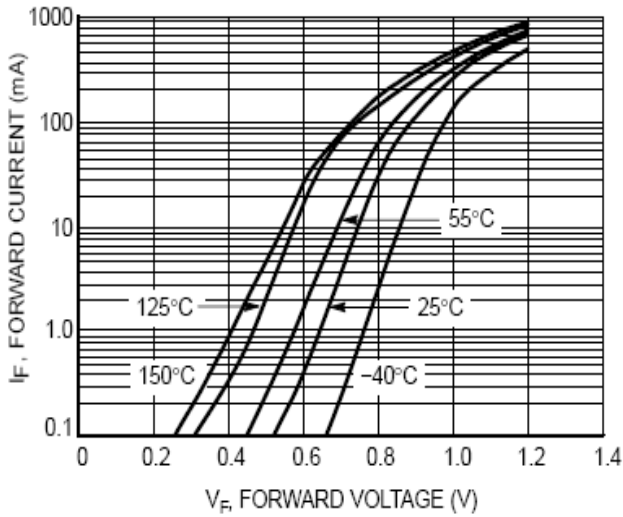


Figure 2. Forward Current

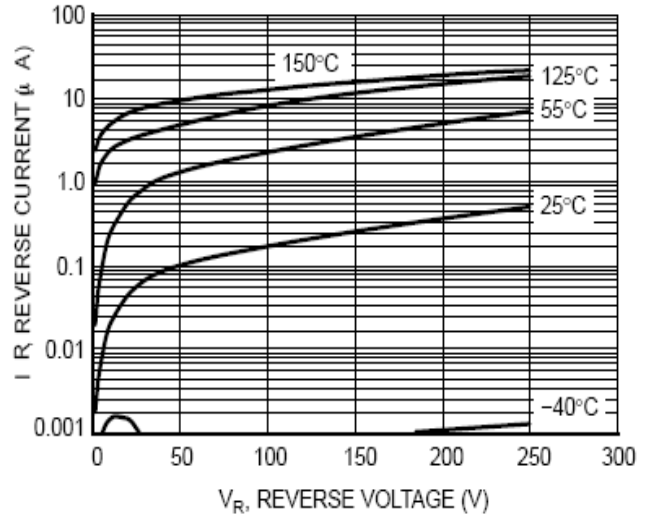


Figure 3. Leakage Current

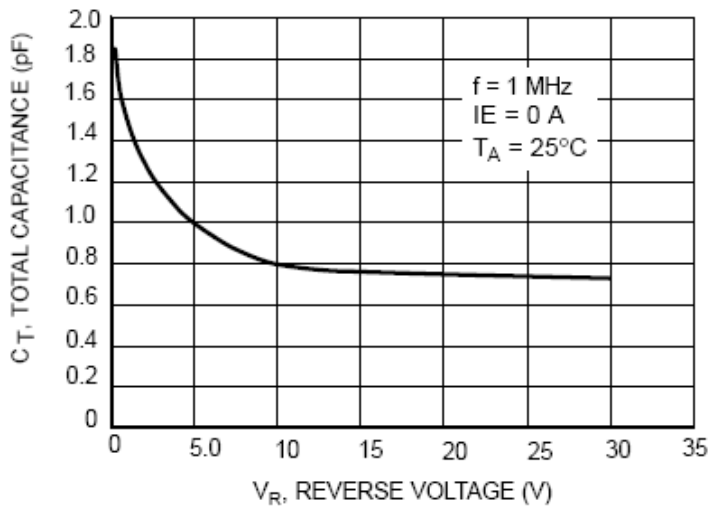


Figure 4. Total Capacitance

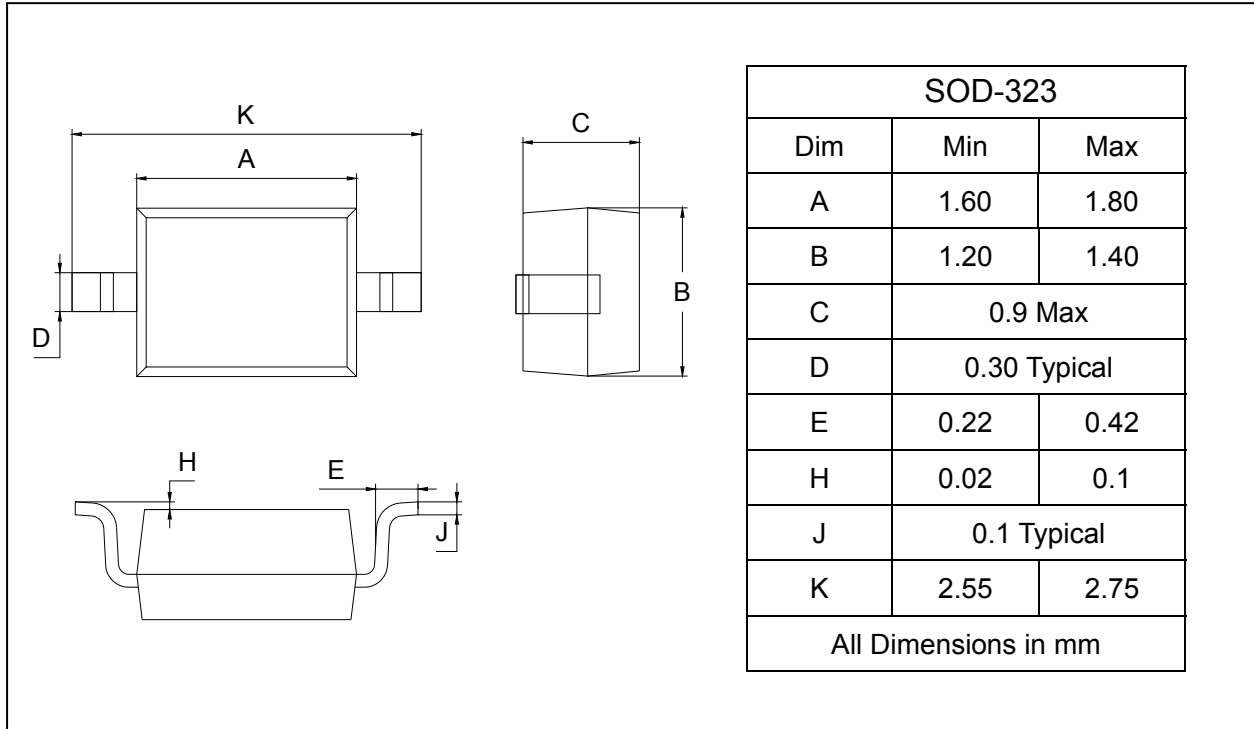
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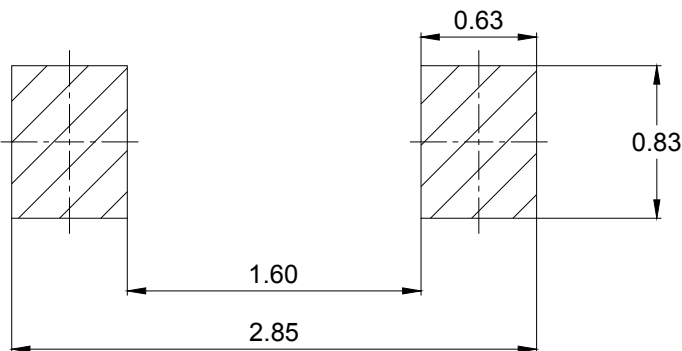
PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
BAS20H	SOD-323	3000/Tape&Reel