

General Purpose Diode

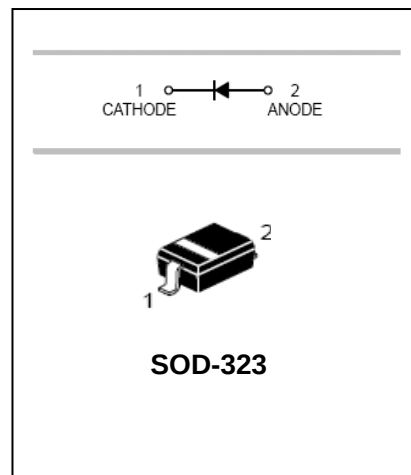
BAS321

FEATURES

- Switching speed: max. 50 ns
- General application
- Continuous reverse voltage: max. 200 V
- Repetitive peak reverse voltage: max. 250 V
- Repetitive peak forward current: max. 625 mA.



Lead-free



APPLICATIONS

- General purpose switching in e.g. surface mounted circuits.

ORDERING INFORMATION

Type No.	Marking	Package Code
BAS321	A7	SOD-323

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Characteristic	Symbol	value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	250	V
continuous reverse voltage	V_R	200	V
Average Rectified Output Current	I_o	200	mA
Non-Repetitive Peak Forward Surge Current @t=1.0 μ s @t=100us @t=10ms	I_{FSM}	9 3 1.7	A
Repetitive Peak Forward Surge Current	I_{FRM}	625	mA
Power Dissipation	P_d	300	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	625	°C/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150	°C

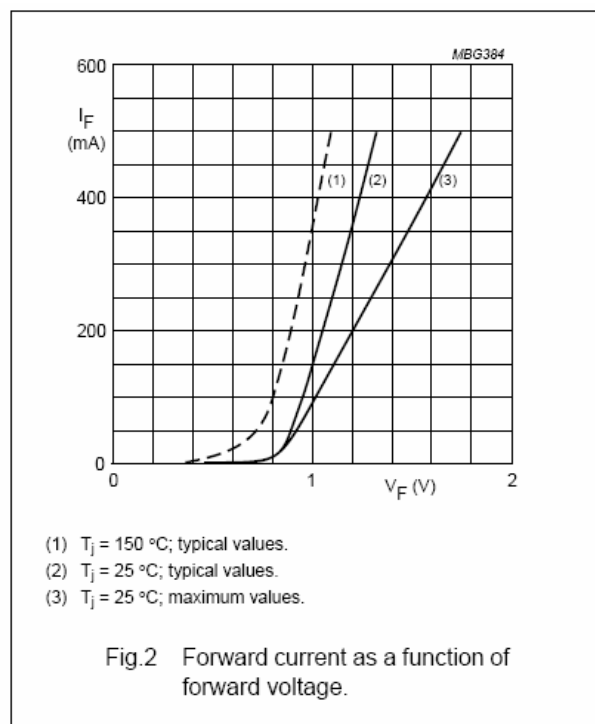
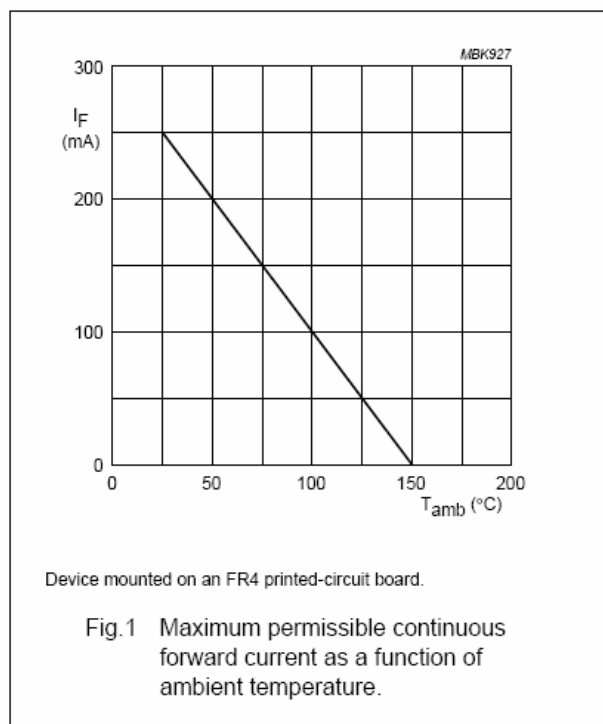
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ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

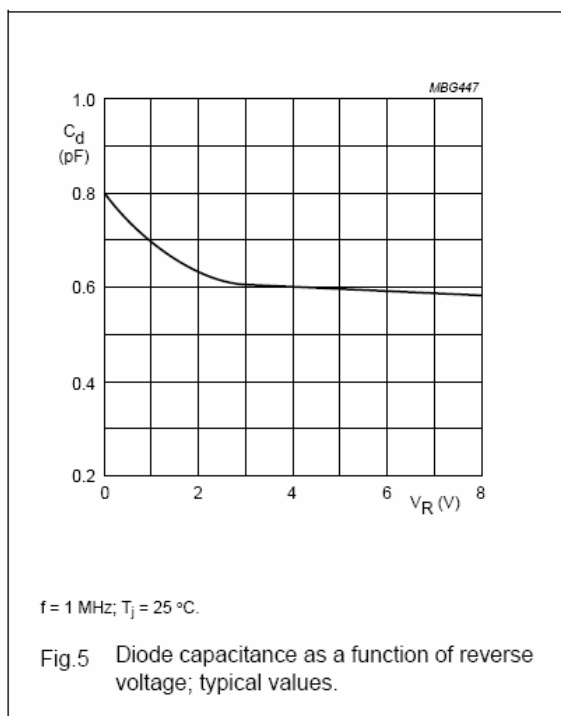
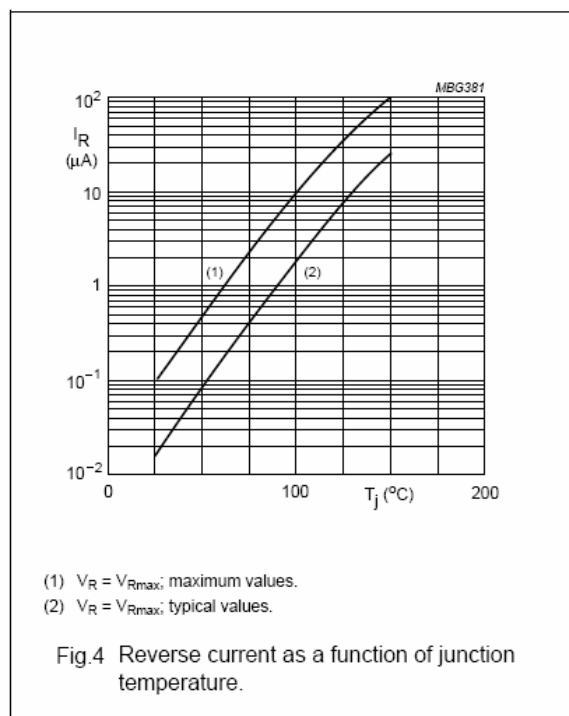
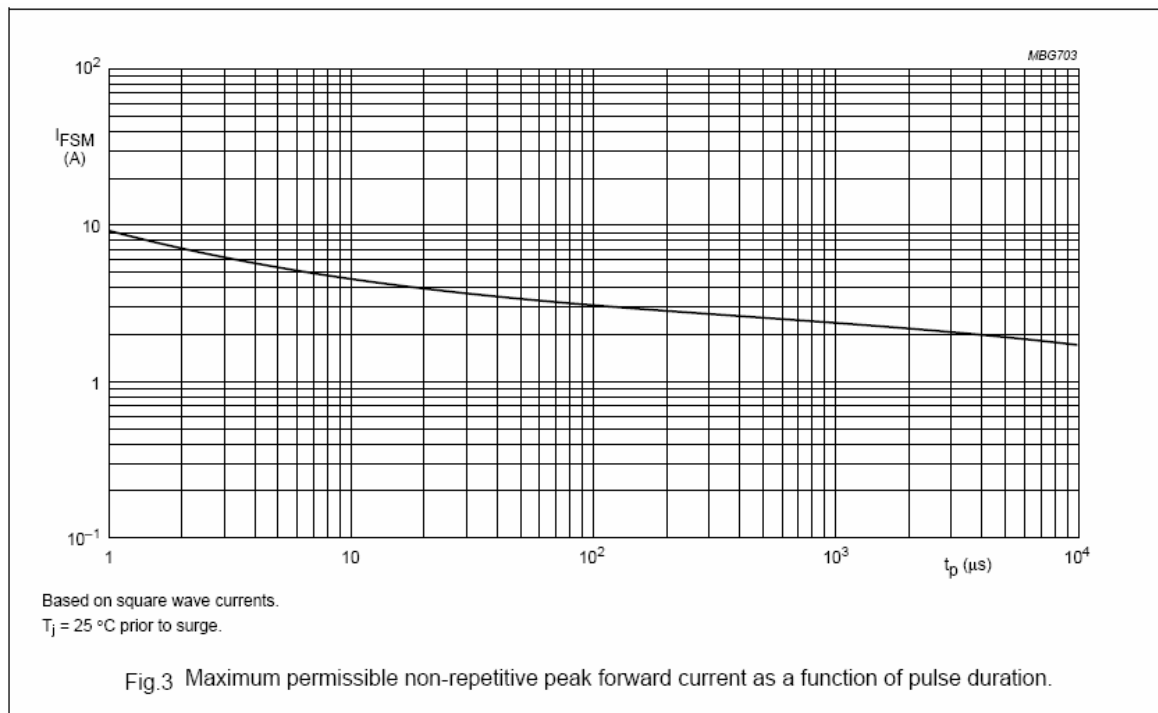
Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	250		V	$I_R=100\mu\text{A}$
Forward Voltage	V_{FM}	-	1.0 1.25	V	$I_F=100\text{mA}$ $I_F=200\text{mA}$
Reverse Current	I_R	-	0.1	μA	$V_R=200\text{V}$
Capacitance between terminals	C_T	-	2	pF	$V_R=0, f=1.0\text{MHz}$
Reverse Recovery Time	t_{rr}	-	50	ns	$I_F=I_R=30\text{mA}$, $I_R=3\text{mA}, R_L=100\Omega$

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



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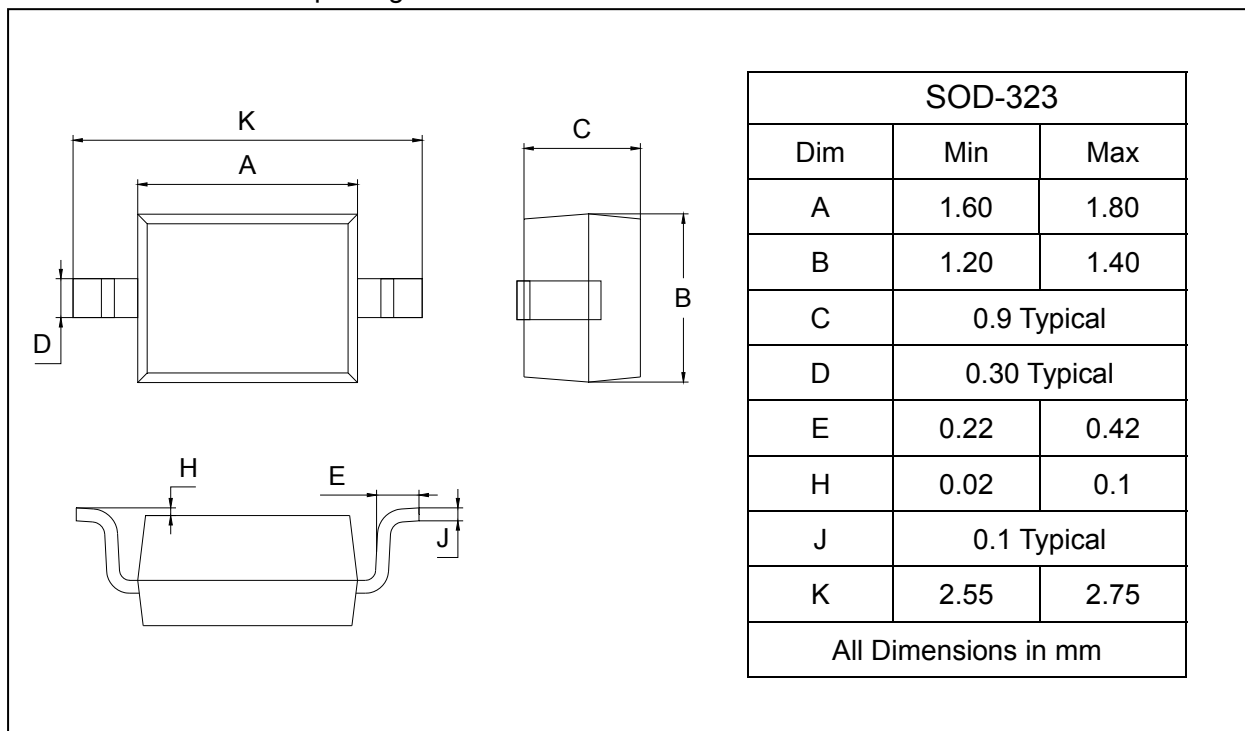
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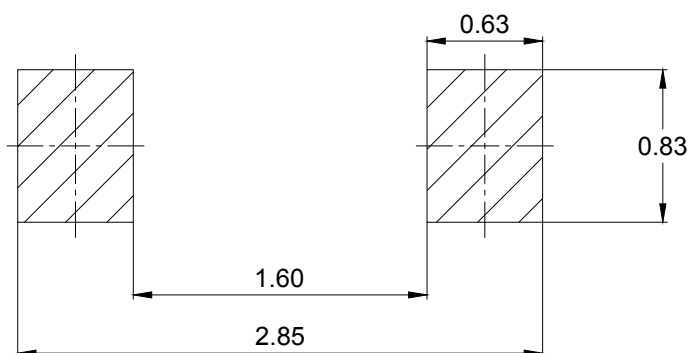
PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
BAS321	SOD-323	3000/Tape&Reel