

Schottky barrier diodes

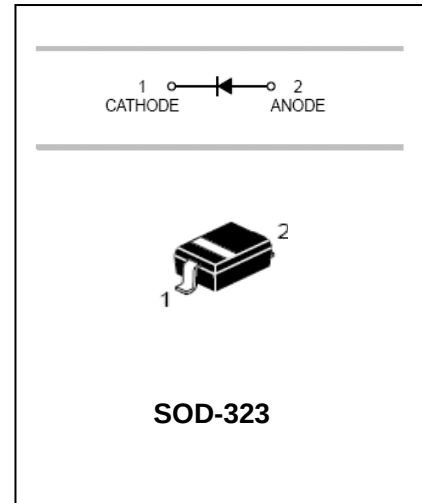
BAS40WS

FEATURES

- Low turn-on voltage
- Fast switching
- PN junction guard for transient and ESD protection
- Designed for surface mount application
- Plastic material-UL recognition flammability classification 94V-O



Lead-free



SOD-323

APPLICATIONS

- Surface mount fast switching diode

ORDERING INFORMATION

Type No.	Marking	Package Code
BAS40WS	43	SOD-323

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak repetitive peak reverse voltage	V_{RRM}	40	V
Working peak reverse voltage	V_{RWM}		
DC Reverse Voltage	V_R		
Forward Continuous Current	I_F	200	mA
Peak forward surge current@<1.0s	I_{FSM}	600	mA
Power Dissipation	P_d	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	°C/W
Operating Junction Temperature Range	T_j	-55 to +125	°C
Storage Temperature Range	T_{STG}	-65 to +150	°C

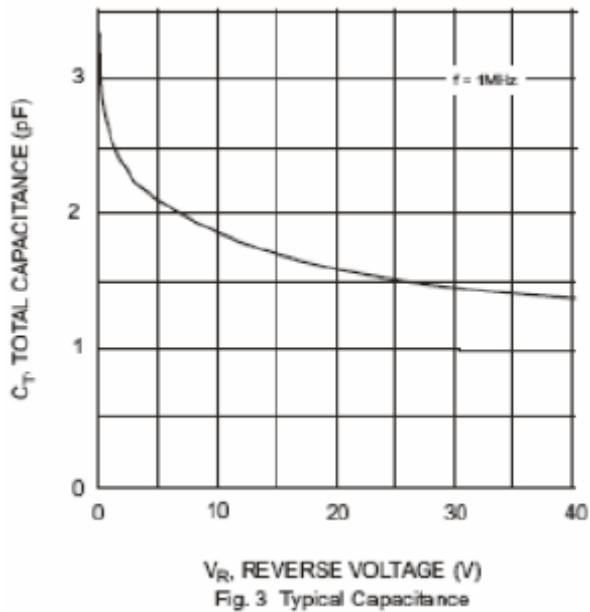
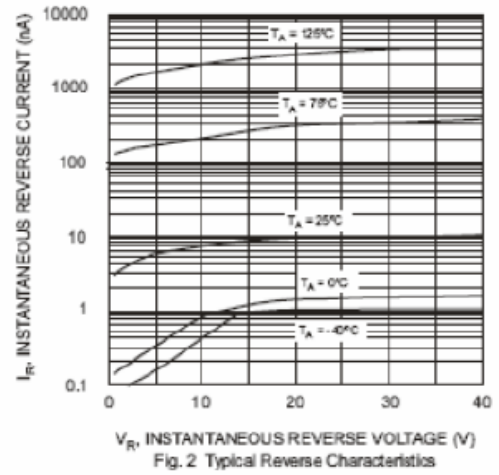
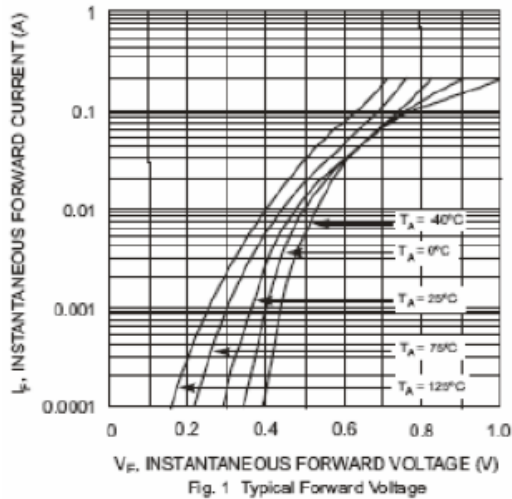
ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Characteristic	Symbol	Min	Typ.	Max	Unit	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	40		-	V	$I_R=10\mu A$
Forward Voltage	V_F	-		0.38 1.0	V	$I_F=1.0mA$ $I_F=40mA$
Reverse Current	I_R	-	20	200	nA	$V_R=30V$
Capacitance between terminals	C_T	-	4	5	pF	$V_R=0, f=1.0MHz$
Reverse Recovery Time	t_{rr}	-		5	ns	$I_F=I_R=10mA$, $R_L=100\Omega$

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



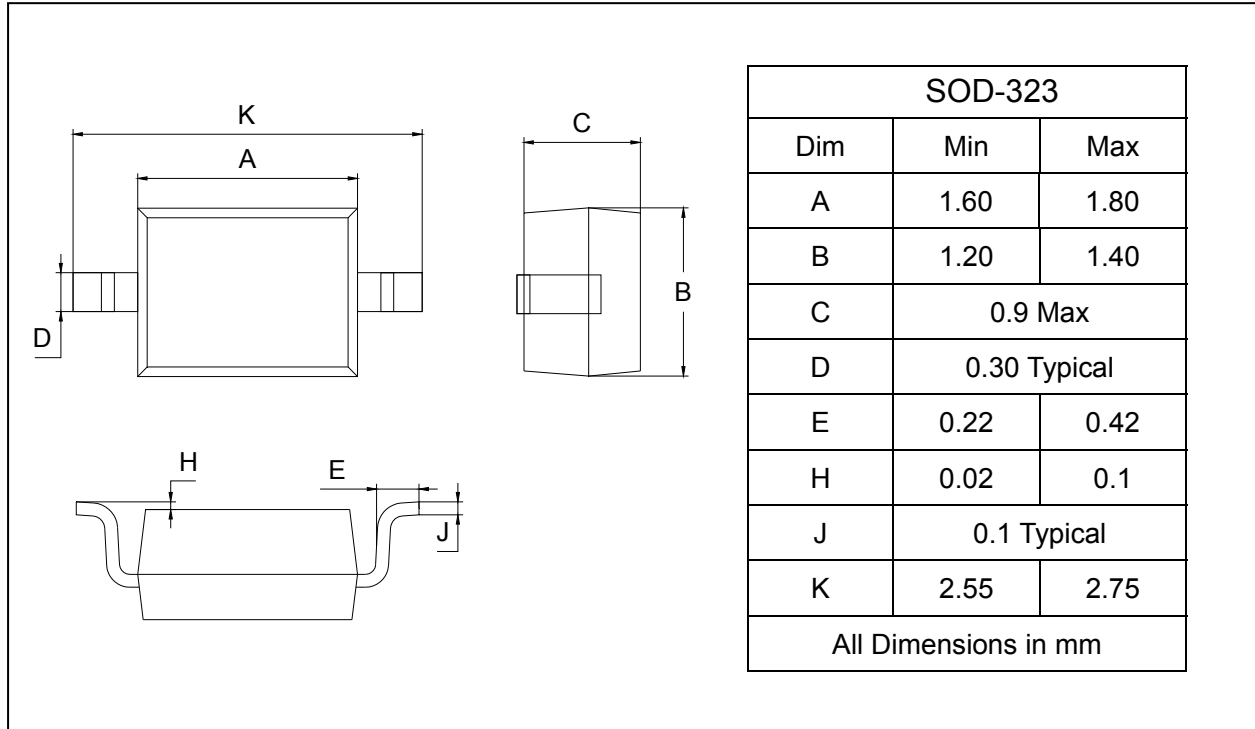
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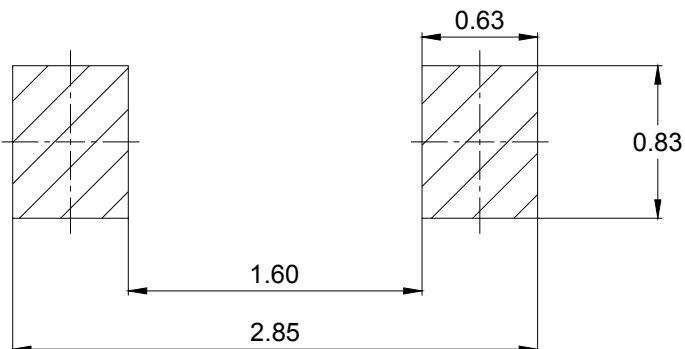
PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
BAS40WS	SOD-323	3000/Tape&Reel