

**SURFACE MOUNT
SCHOTTKY BARRIER DIODE**

**REVERSE VOLTAGE – 70 Volts
FORWARD CURRENT – 0.07 Ampere**

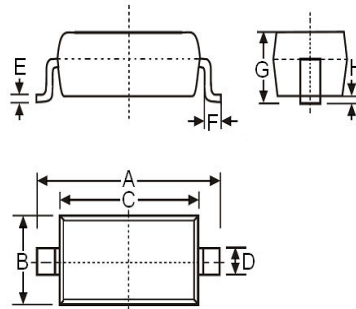
FEATURES

- Low Turn-on Voltage
- Fast Switching
- Guard Ring Construction for Transient Protection

MECHANICAL DATA

- Case: SOD-323 Plastic
- Case Material: “Green” molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)
- Moisture Sensitivity: Level 1 per J-STD-020D
- Lead Free in RoHS 2002/95/EC Compliant

SOD-323



SOD-323		
Dim.	Min.	Max.
A	2.50	2.70
B	1.20	1.40
C	1.60	1.80
D	0.25	0.35
E	0.08	0.15
F	0.25	0.40
G	---	1.0
H	0.00	0.10
Dimensions in millimeter		

Maximum Ratings & Thermal Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	BAS70WS	Units
Repetitive Peak Reverse Voltage	V_{RRM}	70	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
Forward Continuous Current	I_F	70	mA
Peak Forward Surge Current@<1.0s	I_{FSM}	100	mA
Power Dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	$^\circ\text{C/W}$
Operating Temperature Range	T_J	125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55~+150	$^\circ\text{C}$

Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Test Condition	Symbol	BAS70WS	Unit
Maximum Forward Voltage	$I_F = 1\text{mA}$ $I_F = 15\text{mA}$	V_F	410 1000	mV
Maximum DC Reverse Current at Rated DC Blocking Voltage	$V_R = 50\text{V}$	I_R	100	nA
Total Capacitance	$V_R = 1.0\text{V}, f = 1\text{MHz}$	C_T	2	pF
Reverse Recovery time	$I_{rr} = 1\text{mA}$, $I_R = I_F = 10\text{mA}$ $R_L = 100\Omega$	t_{rr}	5	nS

REV. 1, Oct-2010, KSHR18

RATING AND CHARACTERISTIC CURVES

BAS70WS



FIG.1- TYPICAL FORDWARD CHARACTERISTICS

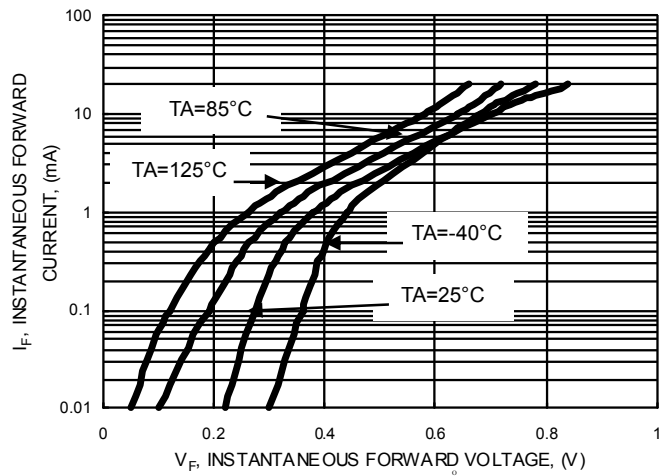


FIG.2- TYPICAL REVERSE CHARACTERISTICS

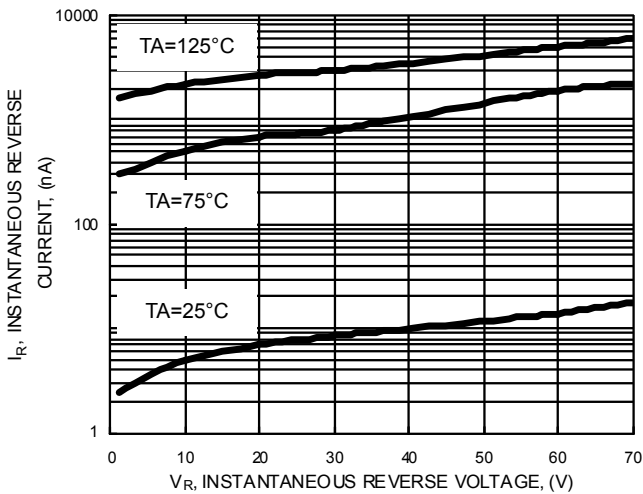
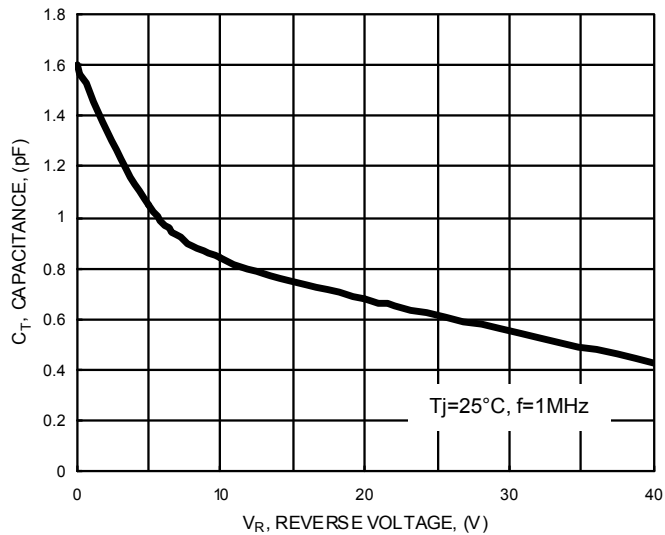


FIG.3- TYPICAL JUNCTION CAPACITANCE



Device Marking :

Device P/N	Marking	Equivalent Circuit Diagram
BAS70WS	K73	<div> <div>1</div> <div> <div></div> <div></div> </div> <div>2</div> </div>

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