EON LITE-ON SEMICONDUCTORS

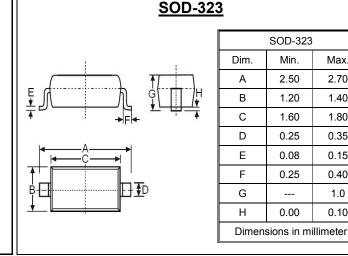
SURFACE MOUNT SCHOTTKY BARRIER DIODE

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



REVERSE VOLTAGE – 70 Volts

FORWARD CURRENT – 0.07 Ampere

Maximum Ratings & Thermal Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	BAS70WS	Units
Repetitive Peak Reverse Voltage	V _{RRM}		V
Working Peak Reverse Voltage	V _{RWM}	70	v
DC Blocking Voltage	V _R		
Forward Continuous Current	l _F	70	mA
Peak Forward Surge Current@<1.0s	I _{FSM}	100	mA
Power Dissipation	PD	200	mW
Thermal Resistance Junction to Ambient	$R_{\Theta_{JA}}$	625	°C /W
Operating Temperature Range	TJ	125	°C
Storage Temperature Range	T _{STG}	-55~+150	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Test Condition	Symbol	BAS70WS	Unit	
Maximum Forward Voltage	I _F = 1mA I _F = 15mA	V _F	410 1000	mV	
Maximum DC Reverse Current at Rated DC Blocking Voltage	V _R = 50V	I _R	100	nA	
Total Capacitance	V _R =1.0V,f=1MHz	CT	2	pF	
Reverse Recovery time	Irr=1mA, IR=IF=10mA RL=100Ω	trr	5	nS	
			DEV 4 Oct 2040 KG	DEV 1 Oct 2010 KSHD18	

REV. 1, Oct-2010, KSHR18

BAS70WS

Max.

2.70

1.40

1.80

0.35

0.15

0.40

1.0

0.10

RATING AND CHARACTERISTIC CURVES BAS70WS

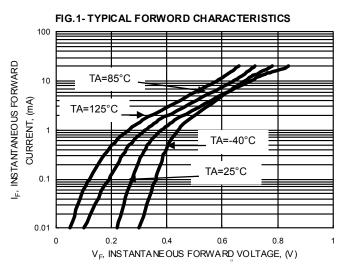
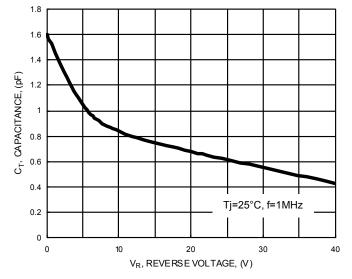


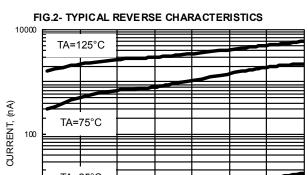
FIG.3- TYPICAL JUNCTION CAPACITANCE



Device Marking :

Device P/N	Marking	Equivalent Circuit Diagram
BAS70WS	K73	1 0 −−− 0 2

I_R, INSTANTANEOUS REVERSE



TA=25°C

V_R, INSTANTANEOUS REVERSE VOLTAGE, (V)





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