

## Features

- Fast Switching Speed
- Low Turn-on Voltage
- Surface Mount Package Ideally Suited for Automatic Insertion
- PN Junction Guard Ring for Transient and ESD Protection

## Mechanical Data

- Marking: 43
- Polarity: Indicated by Cathode Band
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

Maximum Ratings @ 25°C Unless Otherwise Specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$		
Working Peak Reverse Voltage	$V_{RWM}$	40	V
DC Blocking Voltage	$V_R$		
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Forward Continuous Current(Note1)	$I_{FM}$	200	mA
Forward Surge Current @ $t < 1.0s$	$I_{FSM}$	600	mA
Power Dissipation(Note 1)	$P_d$	350	mW
Thermal Resistance(Note 1)	$R$	357	°C/W
Operation Temp. Range	$T_j$	-55 to +125	°C
Storage Temp. Range	$T_{STG}$	-65 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

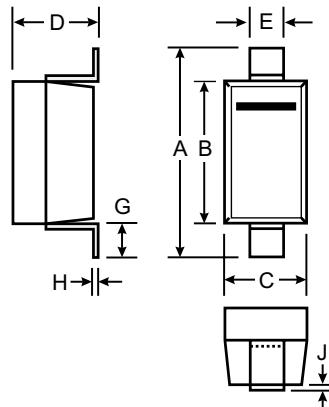
Characteristic	Symbol	Min	Typ	Max	Unit	Test Cond.
Forward Voltage	$V_F$	-----	-----	0.38	V	$t_p < 300\mu s$ $I_F = 1.0\text{mA}$ $t_p < 300\mu s$ $I_F = 40\text{mA}$
Reverse Leakage Current	$I_R$	-----	20	200	nA	$t_p < 300\mu s$ $V_R = 30V$
Junction Capacitance	$C_j$	-----	4	5	pF	$V_R = 0V$ , $f = 1.0\text{MHz}$
Reverse Recovery Time	$t_{rr}$	-----	-----	5	ns	$I_F = I_R = 10\text{mA}$ $I_R = 1.0\text{mA}$ , $R_L = 1000\text{OHM}$

**Note:** 1. Valid provided that terminals are kept at ambient temperature.

## BAS40WX

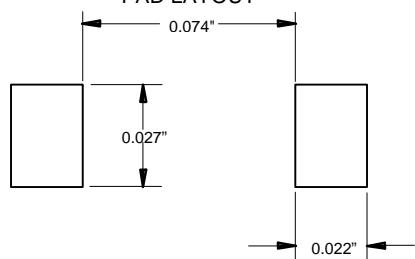
Surface Mount  
Schottky Barrier Diode  
350mW

## SOD-323



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.043	0.80	1.10	
E	.010	.016	0.25	0.40	
G	.006	.018	0.15	0.45	
H	.004	.010	0.10	0.25	
J	-----	.004	-----	0.10	

### SUGGESTED SOLDER PAD LAYOUT





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