



Micro Commercial Components
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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

- Case: SOD-323, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Indicated by Cathode Band
- Weight: 0.008 grams (approx.)

Maximum Ratings @ 25°C Unless Otherwise Specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
Working Peak Reverse Voltage	V_{RWM}		
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

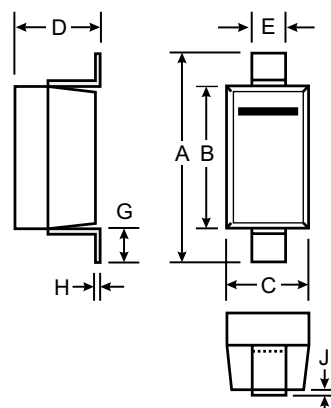
Charateristic	Symbol	Min	Typ	Max	Unit	Test Cond.
Forward Voltage	V_F	-----	-----	0.38 1	V	$t_p < 300\mu s$ $I_F = 1.0mA$ $t_p < 300\mu s$ $I_F = 40mA$
Reverse Leakage Current	I_R	-----	20	200	nA	$t_p < 300\mu s$ $V_R = 30V$
Junction Capacitance	C_j	-----	4	5	pF	$V_R = 0V$, $f = 1.0MHz$
Reverse Recovery Time	t_{rr}	-----	-----	5	ns	$I_F = I_R = 10mA$ $I_R = 1.0mA$, $R_L = 100\Omega$

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

BAS40WX

Surface Mount Schottky Barrier Switching Diode 350mW

SOD-323



DIMENSIONS					NOTE
DIM	INCHES		MM		
	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

