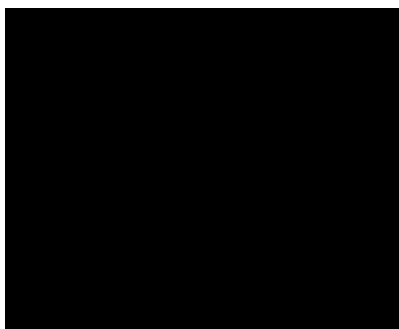


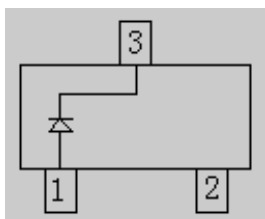


BAS101

Small-Signal Switching Diodes



SOT-23



Features

- V_R 250V
- I_{FAV} 200mA

Typical Applications

- Extreme fast switches

Mechanical Data

- **Package:** SOT23
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD
- **Marking:** JS

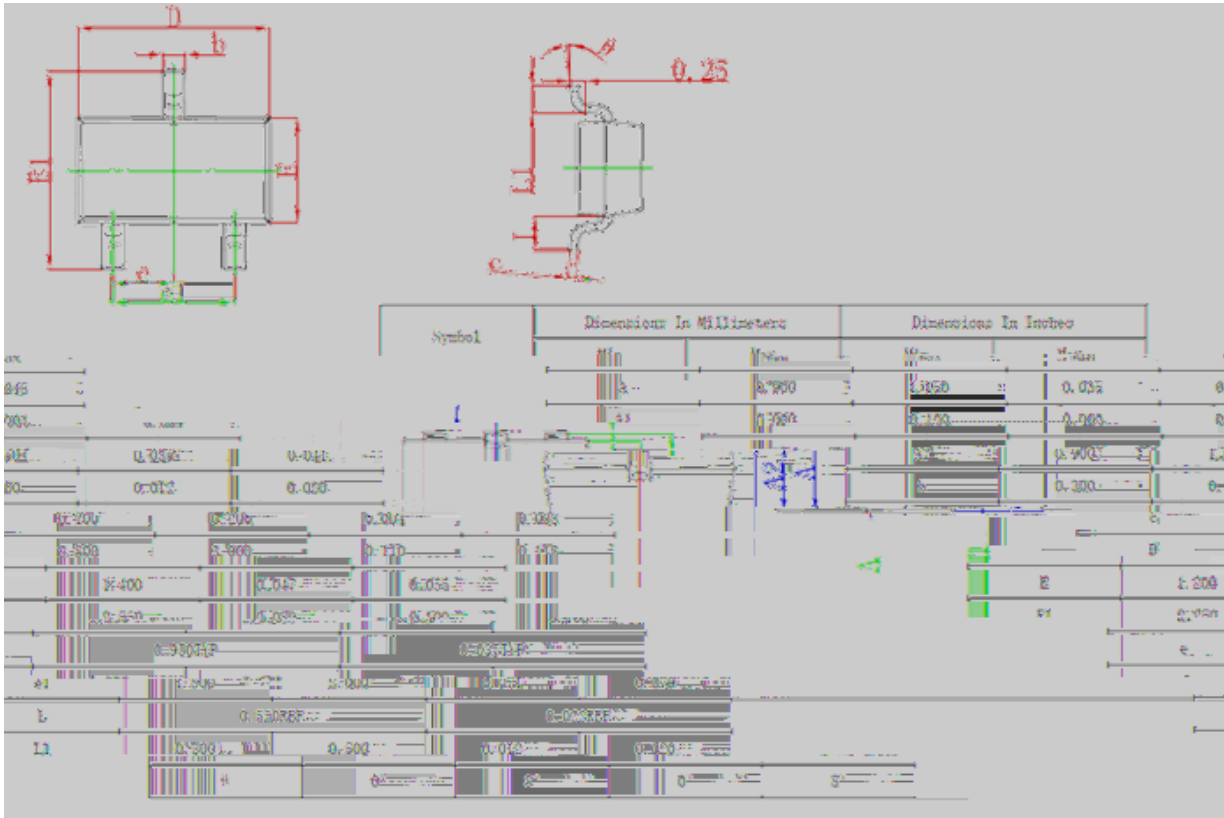
■Maximum Ratings ($T_a=25$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		250
Reverse Voltage	V_R	V		250
Non-Repetitive Peak Forward Surge Current	I_{FSM}	A	$t=8.3ms$, Half sine-wave	2
Average forward current	I_{FAV}	mA		200
Power dissipation	P_D	mW		250
Junction temperature	T_j			150
Storage temperature range	T_{stg}			-55 to +150

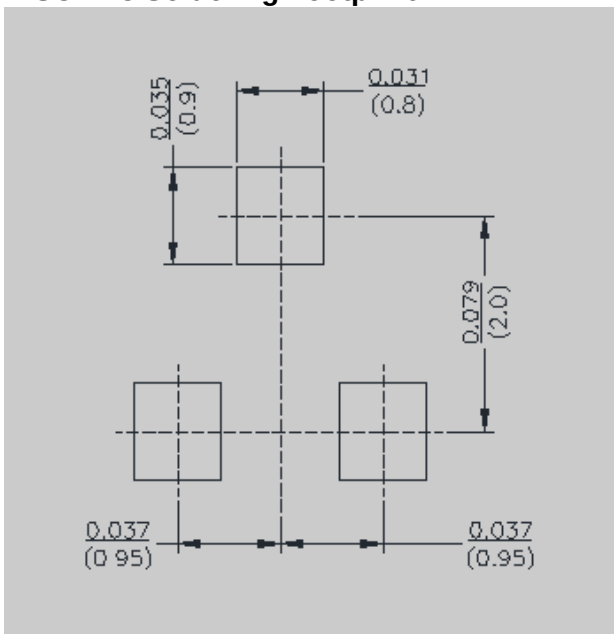
■Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Maximum Reverse current	I_R	nA	$V_R = 250V$	150
Minimum Breakdown voltage	V_R	V	$I_R = 100\mu A$	250
Maximum Diode capacitance	C_D	pF	$V_R = 0V$, $f = 1MHz$	5
Maximum Reverse recovery time	t_{rr}	ns	$I_F = I_R = 30mA$, $R_L = 100\Omega$, $I_{RR} = 3mA$	50

■ SOT-23 Package Outline Dimensions



■ SOT-23 Soldering Footprint





BAS101

Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website [http:// www.21yangjie.com](http://www.21yangjie.com) , or consult your nearest Yangjie's sales office for further assistance.