JG® Techology

PRODUCT DATA SHEET

To learn more about JGSEMI, please visit our website at

Datasheet Resources Samples

Please note: Please check the JINGAO Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.jg-semi.cn. Please email any questions regarding the system integration to JINGAO_questions@jgsemi.com.

JG Techology

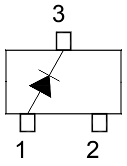
BAS40-XX

SURFACE MOUNT SCHOTTKY BARRIER DIODE

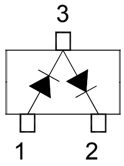
Features

- Low forward voltage
- Fast switching

BAS40



BAS40-04



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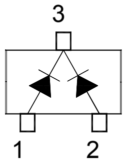

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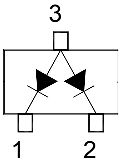
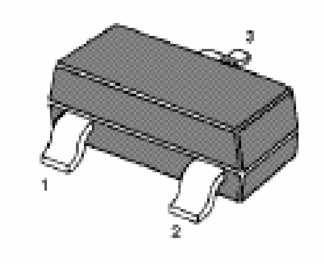




SOT-23

Absolute Maximum Ratings (T_a = 25 °C)

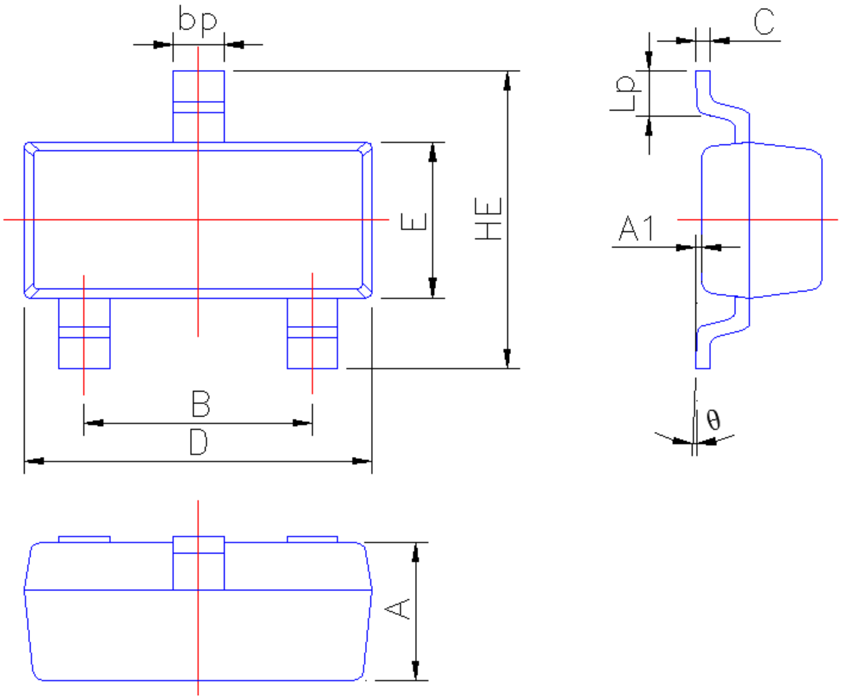
Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
DC Blocking Voltage	V_R	40	V
Forward Continuous Current	I_F	200	mA
Peak Forward Surge Current (at tp < 1 s)	I_{FSM}	600	mA
Junction Temperature	T_J	150	°C
Storage Temperature Range	T_S	- 55 to + 125	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I_F = 1 mA at I_F = 40 mA	V_F V_F	- -	380 1000	mV mV
Reverse Current at V_R = 30 V	I_R	-	200	nA
Reverse Breakdown Voltage at I_R = 10 μA	$V_{(BR)R}$	40	-	V
Reverse Recovery Time from I_F = 10 mA through I_R = 10 mA to I_R = 1 mA	t_{rr}	-	5	ns
Total Capacitance at V_R = 0 V, f = 1 MHz	C_T	-	5	pF

PACKAGE OUTLINE

Plastic surface mounted package; 3 leads **SOT-23**



Symbol	Dimension in Millimeters	
	Min	Max
A	0.90	1.10
A1	0.013	0.100
B	1.80	2.00
bp	0.35	0.50
C	0.09	0.150
D	2.80	3.00
E	1.20	1.40
HE	2.20	2.80
Lp	0.20	0.50
θ	0°	5°

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