

SOT -23 Plastic-Encapsulate Schottky Barrier Diode

Features

- High Current Capability
- Low Forward Voltage Drop
- Extremely Fast Switching Speed

Mechanical Data

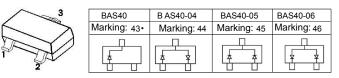
- SOD-323 Small Outline Plastic Package
- Epoxy UL: 94V-
- Mounting Position: Any





Pin definition

Epuivalent circuit



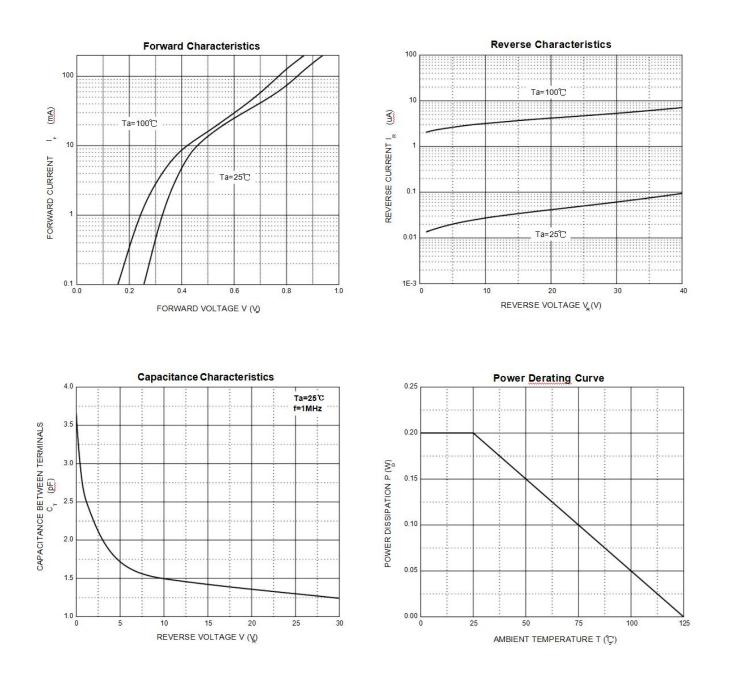
Maximum Ratings Thermal Characteristic (TA=25°C unless otherwise noted)					
Parameters	Symbol	Value	Unit		
Reverse Voltage	V _R	40	V		
Peak Repetitive Reverse Voltage	V _{RRM}	40	V		
Power Dissipation	P _D	200	200 mW		
Typical thermal resistance	R _{eJA}	500	°C/W		
Junction Temperature	TJ	125	°C		
Storage temperature range	T _{STG}	-55-+150 °C			
Non-repetitive Peak Forward Current	I _{FM}	200 mA			
Peak forward surge current 8.3 ms single half sine-wave	I _{FSM}	600	mA		

Electrical Characteristics (TA=25°C unless otherwise noted)						
Parameters		Test Condition	Limits			
	Symbol		Min	Max	Unit	
Reverse Voltage	VBR	IR=10uA	40		V	
Reverse Leakage Current	IR	VR=30V		200	nA	
Forward Voltage		IF=1.0mA		0.38	- V	
	VF	IF=40mA		1.0		
Reverse Recovery Time	TDD	IF= IR=10mA		5		
	TRR	RL=100Ω			nS	
		IRR=0.1 X IR				
Capacitance	CJ	VR=0V, f=1MHZ		5	pF	



Ratings and Characteristics Curves

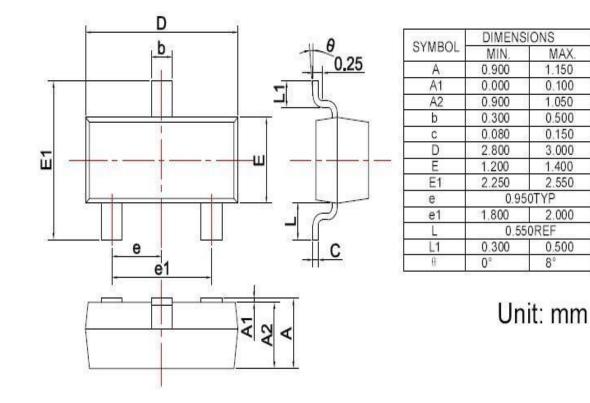
(TA = 25°C unless otherwise noted)





Package Outline Dimensions

in inches (millimeters)



Revision History

Document Version	Date of release	Description of changes
Rev.A	2018.05.06	First issue



Disclaimers

These materials are intended as a reference to assist our customers in the selection of the Suzhou Good-Ark product best suited to the customer's application; they do not convey any license under any intellectual property rights, or any other rights, belonging to Suzhou Good-Ark Electronics Co., Ltd.or a third party.

Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, or infringement of any third-party's rights, originating in the use of any product data, diagrams, charts, programs, algorithms, or circuit application examples contained in these materials.

All information contained in these materials, including product data, diagrams, charts, programs and algorithms represents information on products at the time of publication of these materials, and are subject to change by Suzhou Good-Ark Electronics Co., Ltd. without notice due to product improvements or other reasons. It is therefore recommended that customers contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized Suzhou Good-Ark Electronics Co., Ltd. for the latest product information before purchasing a product listed herein. The information described here may contain technical inaccuracies or typographical errors. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability, or other loss rising from these inaccuracies or errors. Please also pay attention to information published by Suzhou Good-Ark Electronics Co., Ltd. by various means, including our website home page. (http://www.goodark.com)

When using any or all of the information contained in these materials, including product data, diagrams, charts, programs, and algorithms, Please be sure to evaluate all information as a total system before making a final decision on the applicability of the information and products. Suzhou Good-Ark Electronics Co., Ltd. assumes no responsibility for any damage, liability or other loss resulting from the information contained herein.

The prior written approval of Suzhou Good-Ark Electronics Co., Ltd. is necessary to reprint or reproduce in whole or in part these materials.

Please contact Suzhou Good-Ark Electronics Co., Ltd. or an authorized distributor for further details on these materials or the products contained herein.