GOOD-ARK Electronics

SOD- 123 Plastic-Encapsulate Schottky Barrier Diode

Features

High current apability

• Low forward voltage Drop

Mechanical Data

SOD-123 Small outline plastic packagePolarity: color band denotes cathode end

Epoxy UL: 94V-0Mounting position: any





Marking:

SOD-123

SD103AW: S4 SD103BW: S5 SD103CW: S6

Maximum Ratings & Thermal Characteristics (T _A =25°C unless otherwise noted)					
Parameters	Symbol	Value			Unit
		SD103AW	SD103BW	SD103CW	O.M.
Maximum repetitive peak reverse voltage	V_{RRM}	40	30	20	V
Maximum RMS voltage	V_{RMS}	28	21	14	V
Maximum DC blocking voltage	V_{DC}	40	30	20	V
Non-repetitive Peak Forward Current	I _{FM}		350		mA
Peak forward surge current 8.3 ms single half sine-wave	I _{FSM}	2		Α	
Power dissipation	P _D	400		mW	
ypical thermal resistance	$R_{\theta JA}$		250		℃W
Operating junction temperature	Tj		125		$^{\circ}$
Storage temperature range	T _{STG}		-50-+150		$^{\circ}$

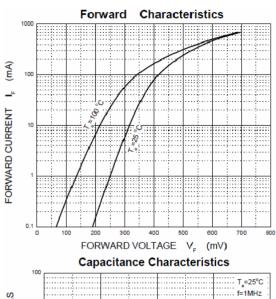
Valid provided that electrodes are kept at ambient temperature.

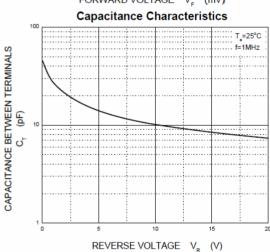
Electrical Characteristics (T _A =25°C unless otherwise noted)					
Baramatar	Symbols		Limits		
Parameter		Test Condition	Min	Max	Unit
Maximum reverse breakdown voltage	VR	SD103AW IR=100uA SD103BW SD103CW	40 30 20		V
Maximum reverse current	lR	VR=30V SD103AW VR=20V SD103BW VR=10V SD103CW		5.0	uA
Maximum forward voltage		IF=20mA		0.37	V
Maximum forward voltage	VF	IF=200mA		0.60	v
		IF = IR= 200mA			
Reverse recovery time	TRR	Irr=0.1×IR		40	nS
		RL=100 Ω		10	110
Type junction capacitance	CJ	VR=0V, f=1MHZ		50	pF

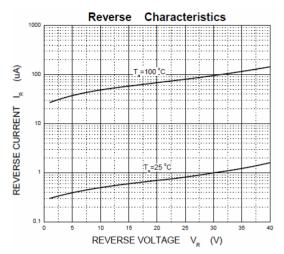
GOOD-ARK Electronics

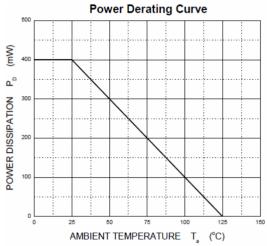
Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)





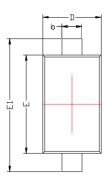


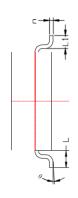


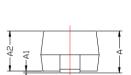
GOOD-ARK Electronics

Package Outline Dimensions

millimeters







CAMDUI	DIMENSIONS		
SYMBOL	MIN.	MAX.	
Α	1.050	1,250	
A1	0.000	0.100	
A2	1.050	1.150	
b	0.450	0.650	
\subset	0.080	0.150	
D	1.500	1.700	
Ε	2,600	2,800	
E1	3,550	3,850	
L	0.500REF		
L1	0.250	0.450	
θ	0*	8*	

Revision History

Document Version	Date of release	Description of changes
Rev.A	2017.03.31	First issue



GOOD-ARK Electronics

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.