



Features

- Fast Switching Speed
- Low Leakage Current
- High Stability and High Reliability
- Low power losses, high efficiency

Applications

- Electronic computer
- Pulse
- Switching circuit

Mechanical Data

Package: SOD-323

• Lead Finish:Matte Tin

UL Flammability Classification Rating 94V-0

• Case Material: "Green" Molding Compound.





Marking: D4 SOD-323



Maximum Ratings& Thermal Characteri			<u>′</u>
Parameters	Symbol	Value	Unit
Reverse Voltage	V_R	75	V
Peak Reverse Voltage	V_{RM}	85	V
Power Dissipation	P _D	250	mW
Operating junction temperature	TJ	150	$^{\circ}$ C
Storage temperature range	T _{STG}	-55-+150	$^{\circ}\mathbb{C}$
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	°C/W
Average Rectified Current	I _O	250	mA
Non-repetitive Peak Forward Surge Current@t=1us		4	
@t=1ms @t=1s	 FSM	1 0.5	A

Valid provided that electrodes are kept at ambient temperature.

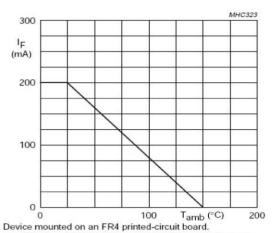
Electrical Characteristics (T _A =25°C unless otherwise noted)					
Parameter		Test Condition	Limits		
	Symbols		Min	Max	Unit
Reverse Breakdown Voltage	V _{(BR)R}	IR=100uA	100		V
Reverse Leakage Current	IR	VR=75V		5	nA
		VR=75V Tj=150°C		0.5	uA
		IF=1mA		0.9	
Forward Voltage	VF	IF=10mA		1.0	V
	VF	IF=50mA		1.1	
		IF=150mA		1.25	
		IF = 10mA IR= 10mA,			
Reverse Recovery Time	Trr	Irr=0.1mA		4	nS
TOTOLOG TOOGVOLY TIME		RL=100Ω			
Total Capacitance	Cj	VR=0V, f=1MHZ		Typ 2	pF



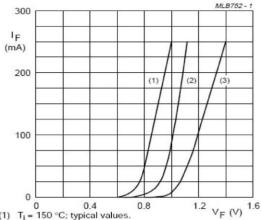


Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

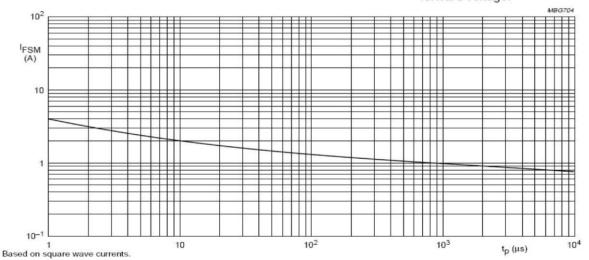


Maximum permissible continuous Fig.2 forward current as a function of ambient temperature.



- T_j = 150 °C; typical values.
- (2) T_i = 25 °C; typical values.

(3) T_j = 25 °C; maximum values. Fig.3 Forward curr Forward current as a function of forward voltage.



 $T_j = 25$ °C prior to surge. Fig.4 Maximum permissible non-repetitive peak forward current as a function of pulse duration.

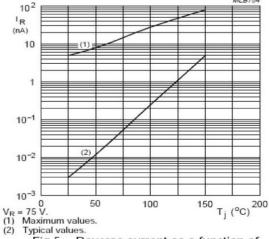
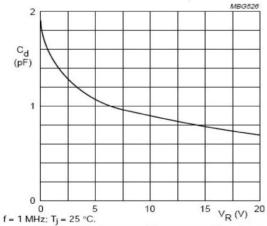


Fig.5 Reverse current as a function of junction temperature.

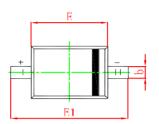


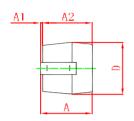
Diode capacitance as a function of reverse voltage; typical values. Fig.6

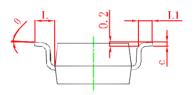


Package Outline Dimensions

in inches (millimeters)







Symbol	Min.(mm)	Max.(mm)	
Α		1.000	
A 1	0.000	0.100	
A2	0.800	0.900	
b	0.250	0.350	
С	0.080	0.150	
D	1.200	1.400	
E	1.600	1.800	
E1	2.500	2.700	
L	0.475REF		
L1	0.250	0.400	
θ	00	80	

Revision History

Document Version	Date of release	Description of changes
Rev.A	2015.01.01	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.