

GOOD-ARK Electronics

SOT-23 Plastic-Encapsulate Switching Diode

Features

- 4.0nS; Fast Switching Device (TRR <4.0 nS)
- 350mW; Power Dissipation of 350mW
- High Stability and High Reliability
- Low reverse leakage





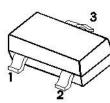
SOT-23

Marking:

Epuivalent circuit

Mechanical Data

- SOT-23 Small Outline Plastic Package
- Epoxy UL: 94V-0
- Mounting Position: Any



Pin definition

MMBD4148A	MMBD4148CA	MMBD4148CC	MMBD4148SE
1	10-4-03		
20	2∘—	2⊶	2
MARKING:5H	MARKING:D6	MARKING:D5	MARKING:D4

Maximum Ratings & Electrical Characteristics(TA=25°C unless otherwise noted)						
Parameter	Symbol	Value	Unit			
Reverse Voltage	V _R	75	V			
Peak Repetitive Reverse Voltage	V _{RRM}	100	V			
Power Dissipation	PD	350	mW			
Average Rectified Current	Ι _ο	200	mA			
Peak Forward Surge Current@tp=1us; TA=25°C	I _{FSM}	2.0	А			
Operating junction temperature range	TJ	150	°C			
Storage temperature range	T _{STG}	-55 to +150	°C			
Thermal Resistance from Junction to Ambient	R _{θJA}	357	°C/W			

Valid provided that electrodes are kept at ambient temperature.

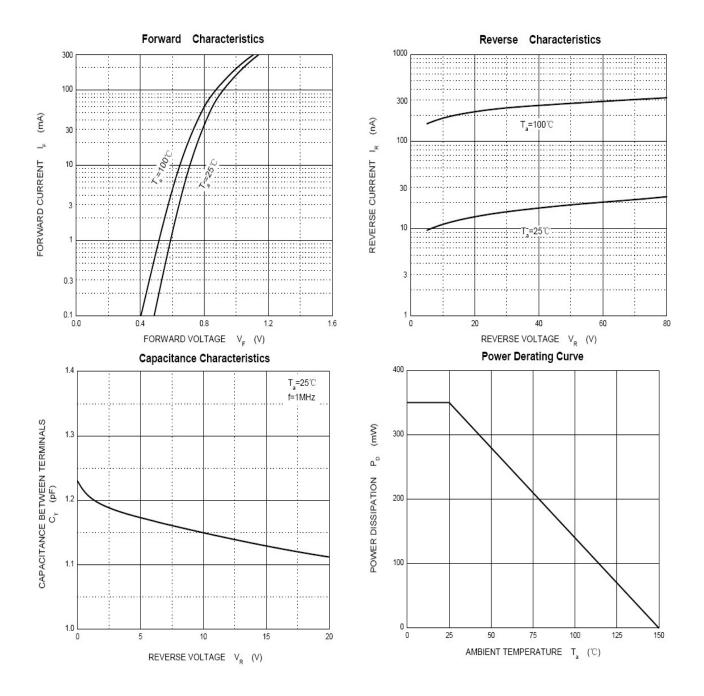
Electrical Specifications(TA=25°C unless otherwise noted)						
Parameter	Symbol	Test Conditions	Limits		Unit	
			Min	Мах	Unit	
Reverse Voltage	V(BR)	IR=100uA	75		V	
Forward Voltage	V_{F}	IF=10mA		1.00	V	
Reverse Leakage Current	I _R	VR=75V		5.0	uA	
Reverse Leakage Current		VR=25V		25	nA	
Typical junction capacitance	CJ	VR=0V, f=1MHZ		4	pF	
Typical reverse recovery time	Trr	IF=IR=1.0mA RL=100Ω IRR=0.1 X IR		4	nS	



MMBD4148A-CA-CC-SE GOOD-ARK Electronics

Ratings and Characteristics Curves

(TA = 25°C unless otherwise noted)

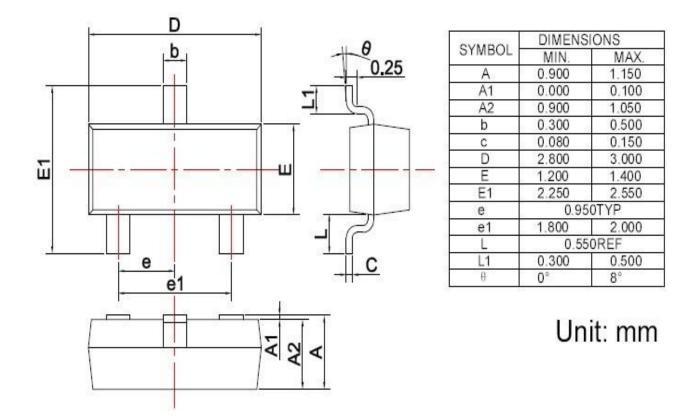




MMBD4148A-CA-CC-SE GOOD-ARK Electronics

Package Outline Dimensions

in inches (millimeters)



Revision History

Document Version	Date of release	Description of changes
Rev.A	2017.07.11	First issue



MMBD4148A-CA-CC-SE 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.