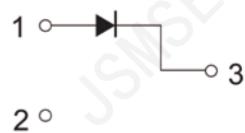


Features

- ◆ Fast Switching Speed
- ◆ For General Purpose Switching Applications
- ◆ High Conductance



SOT-23



Equivalent Circuit

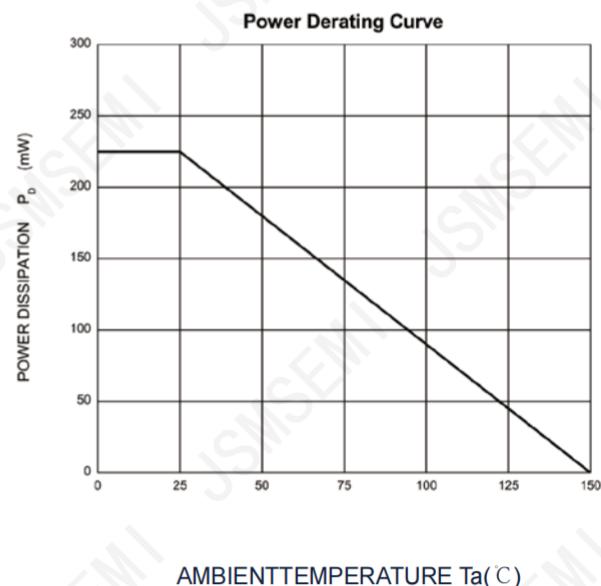
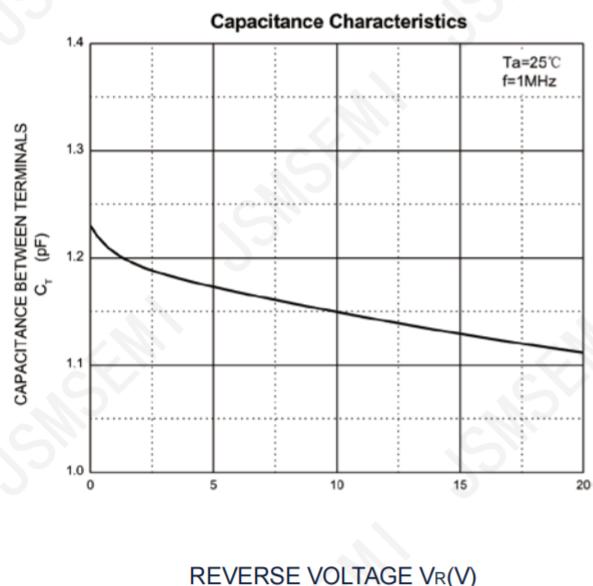
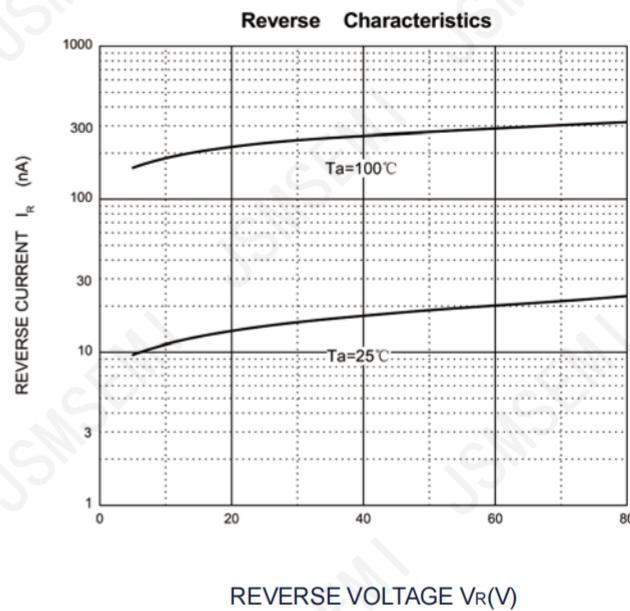
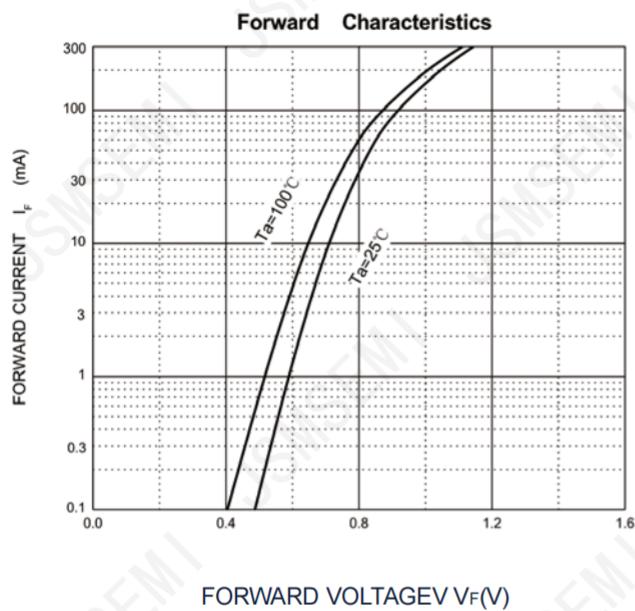
Absolute Maximum Ratings (TA=25°C)

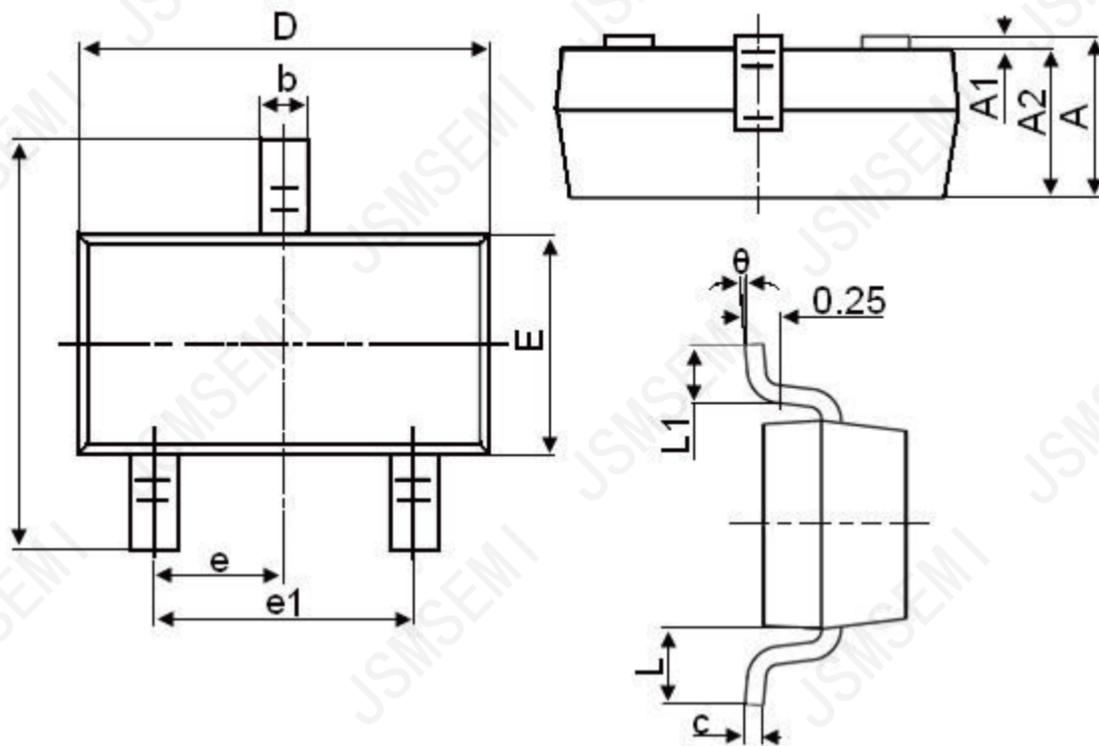
Symbol	Parameter	Value	Unit
V _{RM}	Non-Repetitive Peak Reverse Voltage	100	V
V _{RRM}	Peak Repetitive Peak Reverse Voltage	75	V
V _{RWM}	Working Peak Reverse Voltage		
V _R	DC Blocking Voltage		
V _{R(RMS)}	RMS Reverse Voltage	53	V
I _{FM}	Forward Continuous Current	300	mA
I _o	Average Rectified Output Current	150	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current @ t= 8.3ms	2.0	A
P _d	Power Dissipation	225	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	556	°C/W
T _{j,T_{stg}}	Operation Junction and Storage Temperature Range	-55~+150	°C

Electrical Characteristics (TA=25°C unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
V _(BR)	Reverse breakdown voltage	I _R =100μA	75			V
I _R	Reverse voltage leakage current	V _R =75V			1	μA
V _F	Forward voltage	I _F =1mA			0.715	V
		I _F =10mA			0.855	
		I _F =50mA			1	
		I _F =150mA			1.25	
C _D	Diode capacitance	V _R =0V, f=1MHz			2	pF
t _{rr}	Reverse recovery time	I _F =I _R =10mA, I _{rr} =0.1×I _R , R _L =100Ω			6	nS

Typical Characteristics



Package Outline Dimensions


Symbol	Dimensions in Millimeters	
	mm	
	Min	Max
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950TYP	
e1	1.800	2.000
L	0.550REF	
L1	0.300	0.500
θ	0°	8°

Revision History

Rev.	Change	Date
V1.0	Initial version	2/23/2024

Important Notice

JSMSEMI Semiconductor (JSMSEMI) PRODUCTS ARE NEITHER DESIGNED NOR INTENDED FOR USE IN MILITARY AND/OR AEROSPACE, AUTOMOTIVE OR MEDICAL DEVICES OR SYSTEMS UNLESS THE SPECIFIC JSMSEMI PRODUCTS ARE SPECIFICALLY DESIGNATED BY JSMSEMI FOR SUCH USE. BUYERS ACKNOWLEDGE AND AGREE THAT ANY SUCH USE OF JSMSEMI PRODUCTS WHICH JSMSEMI HAS NOT DESIGNATED FOR USE IN MILITARY AND/OR AEROSPACE, AUTOMOTIVE OR MEDICAL DEVICES OR SYSTEMS IS SOLELY AT THE BUYER'S RISK.

JSMSEMI assumes no liability for application assistance or customer product design. Customers are responsible for their products and applications using JSMSEMI products.

Resale of JSMSEMI products or services with statements different from or beyond the parameters stated by JSMSEMI for that product or service voids all express and any implied warranties for the associated JSMSEMI product or service. JSMSEMI is not responsible or liable for any such statements.

JSMSEMI All Rights Reserved. Information and data in this document are owned by JSMSEMI wholly and may not be edited, reproduced, or redistributed in any way without the express written consent from JSMSEMI.

Any and all information described or contained herein are subject to change without notice due to product/technology improvement, etc. When designing equipment, refer to the "Delivery Specification" for the JSMSEMI product that you intend to use.

For additional information please contact Kevin@jsmsemi.com or visit www.jsmsemi.com