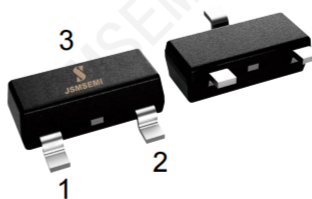
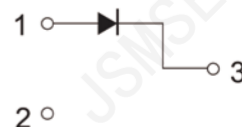


## Features

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



SOT-23



Equivalent Circuit

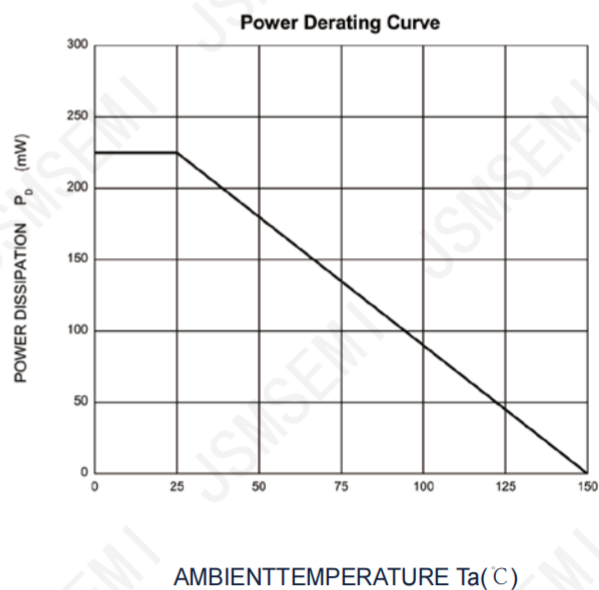
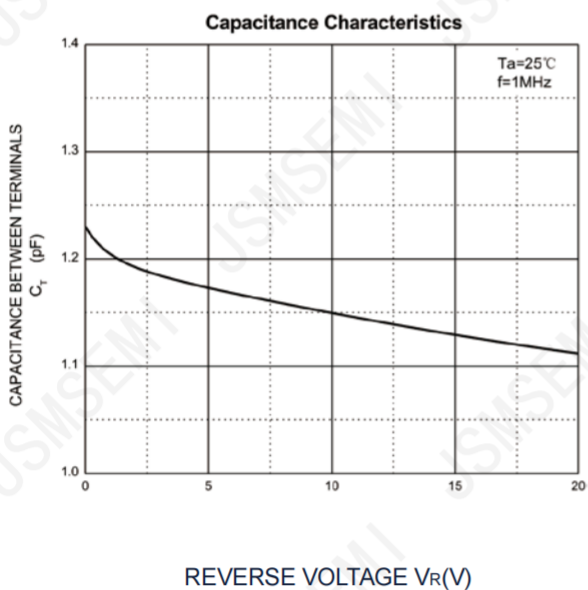
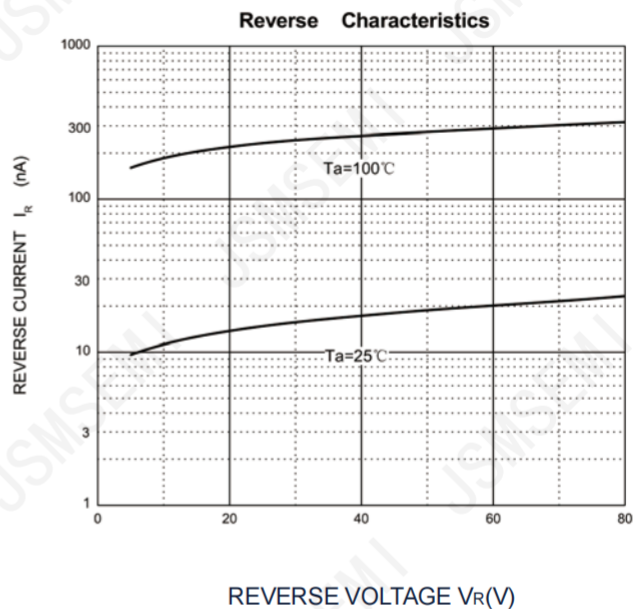
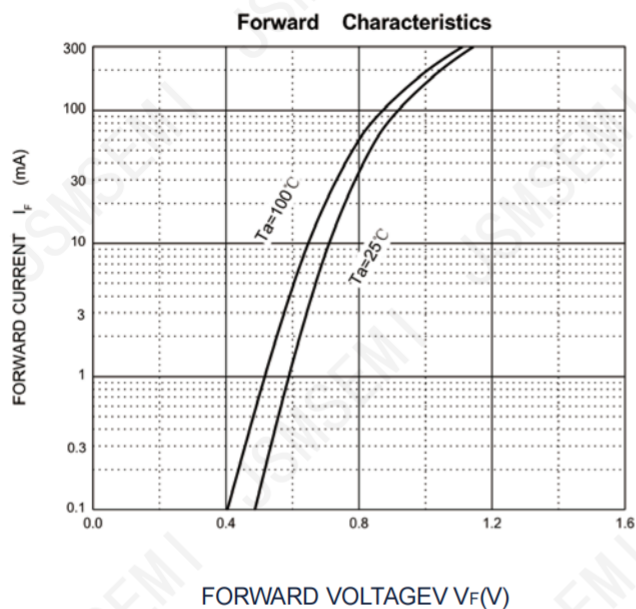
## Absolute Maximum Ratings (TA=25℃)

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
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	556	℃/W
$T_J, T_{stg}$	Operation Junction and Storage Temperature Range	-55~+150	℃

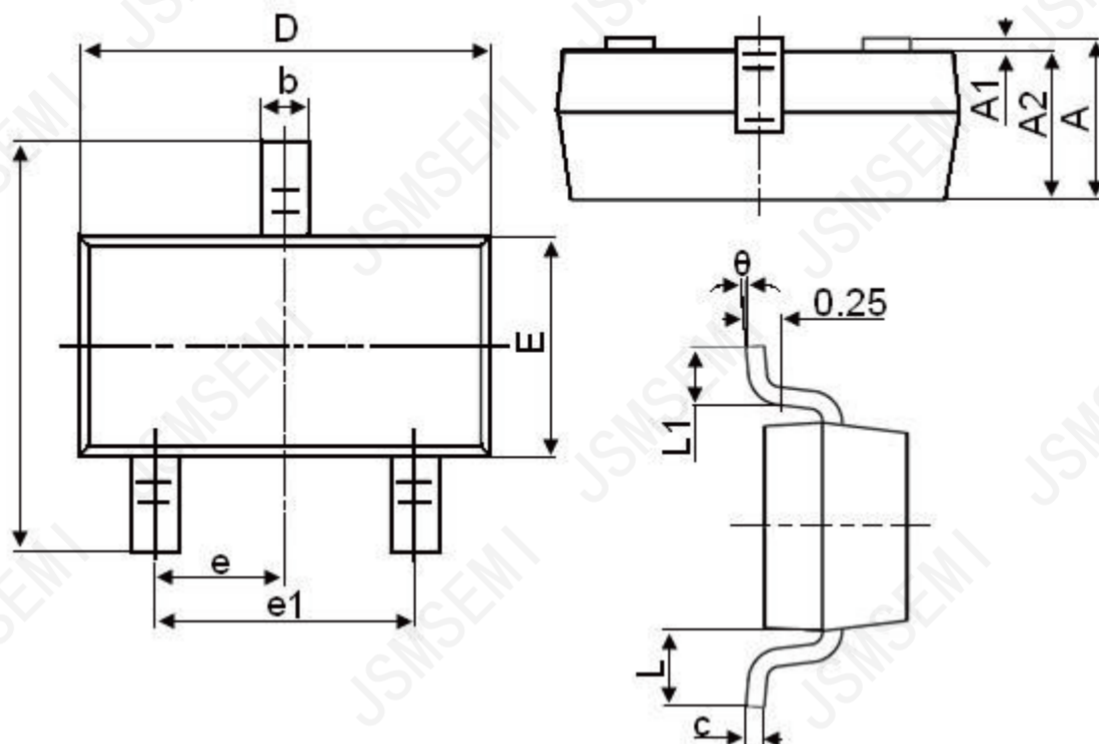
## Electrical Characteristics (TA=25℃ unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse breakdown voltage	$I_R=100\mu A$	75			V
$I_R$	Reverse voltage leakage current	$V_R=75V$			1	$\mu A$
$V_F$	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	$I_F=I_R=10mA, I_{rr}=0.1 \times I_R, R_L=100\Omega$			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

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