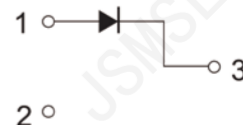


Features

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



SOT-23



Equivalent Circuit

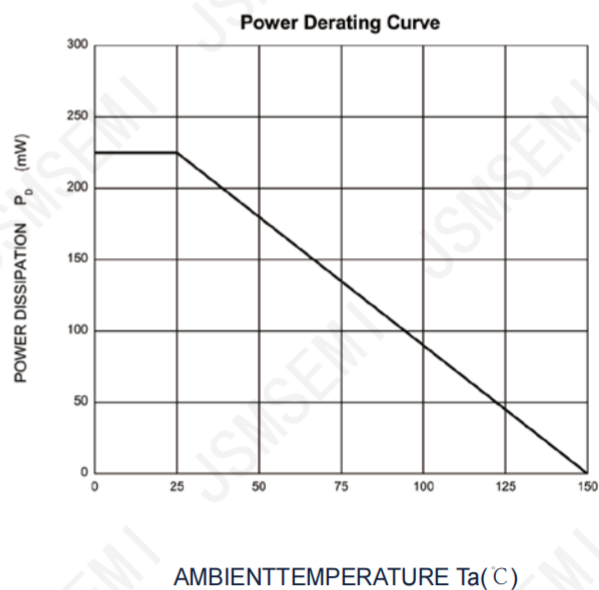
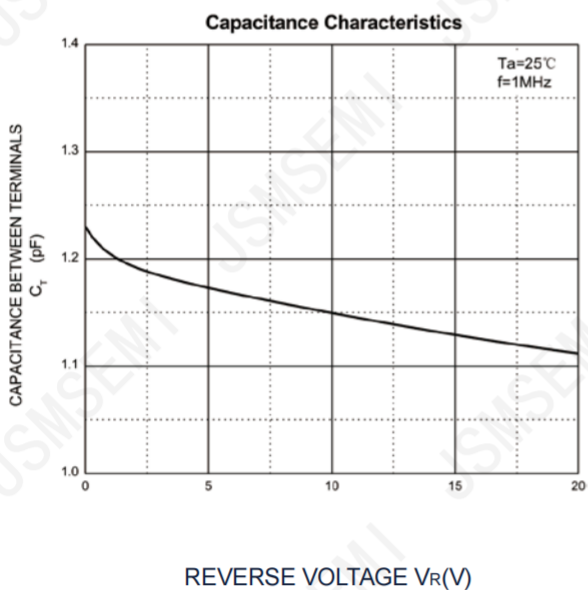
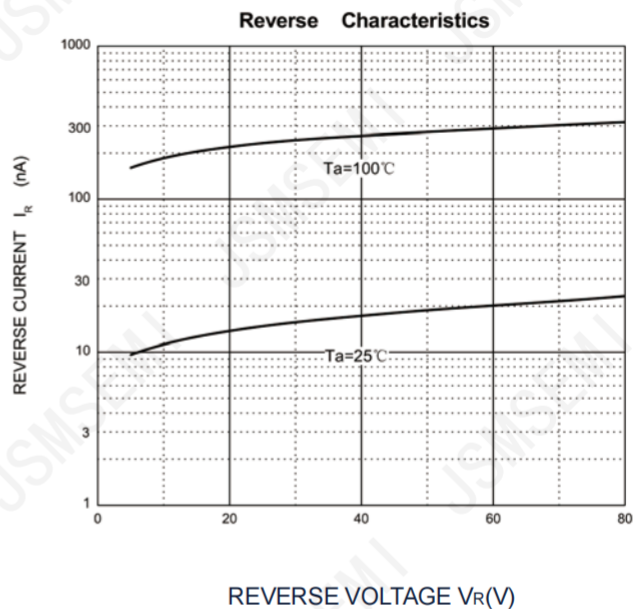
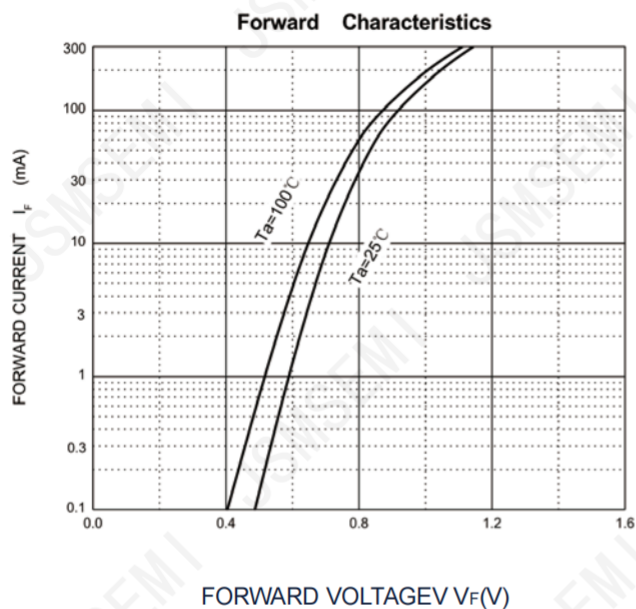
Absolute Maximum Ratings (TA=25℃)

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	℃

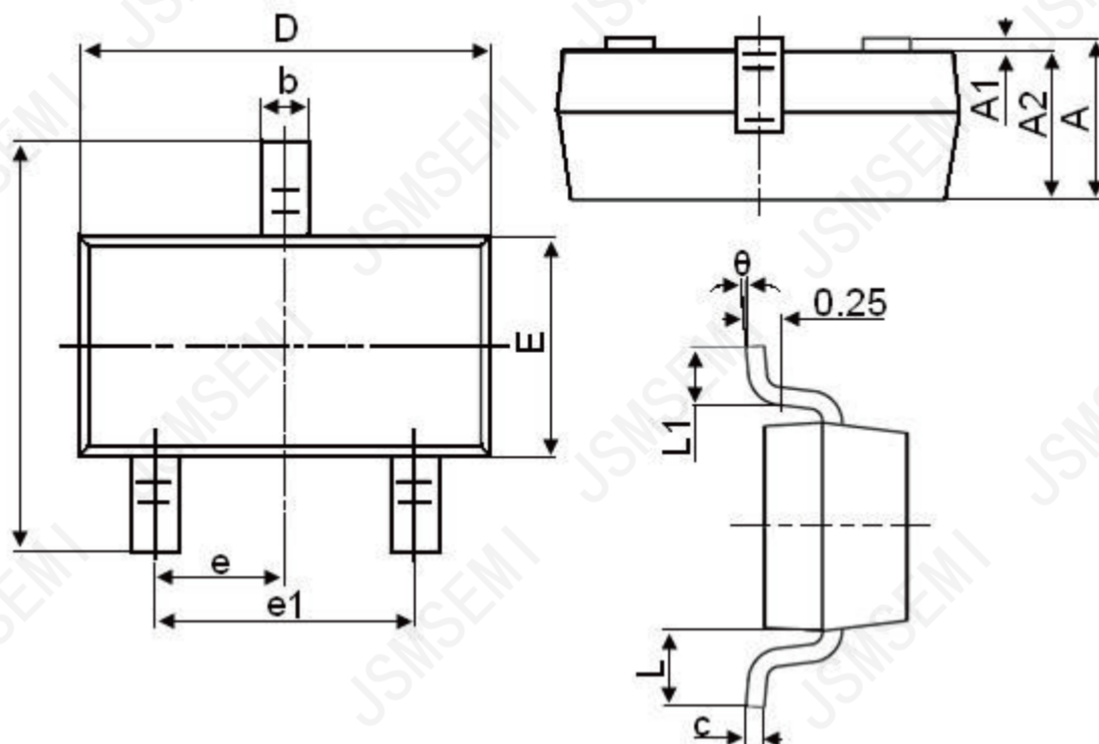
Electrical Characteristics (TA=25℃ unless otherwise specified)

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	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	$I_F=I_R=10mA, I_{rr}=0.1 \times I_R, R_L=100\Omega$			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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