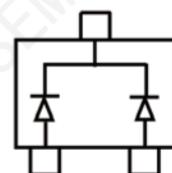


Features

- ◆ Low turn-on voltage
- ◆ Fast switching
- ◆ Also available in lead free version



SOT23



Equivalent Circuit

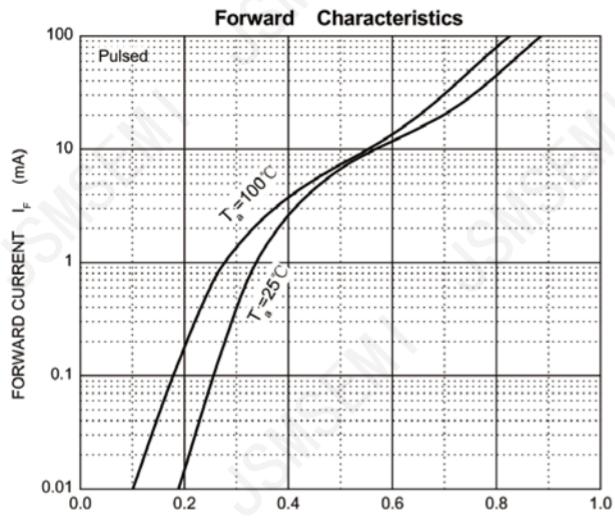
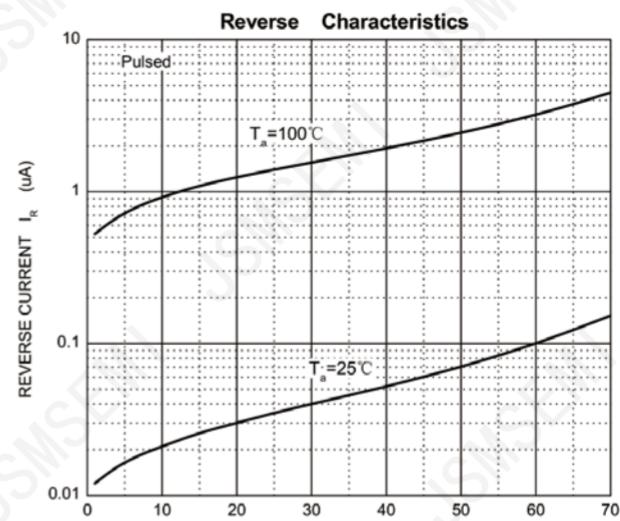
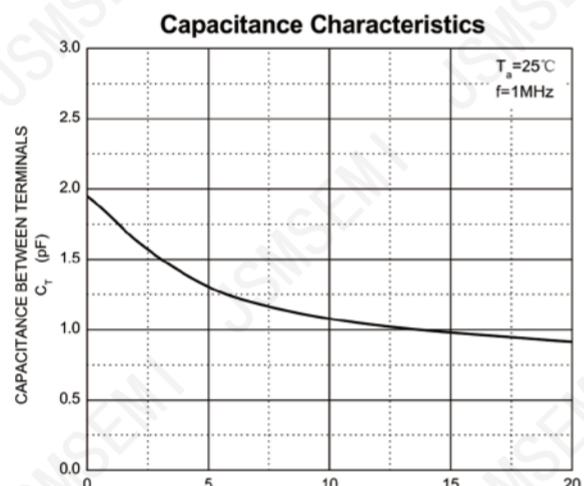
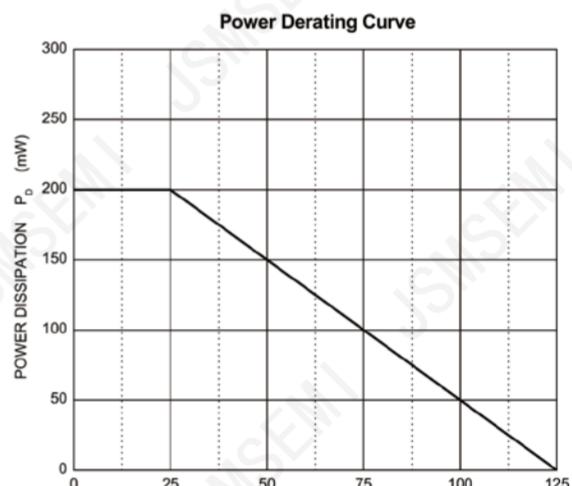
Absolute Maximum Ratings(TA=25°C)

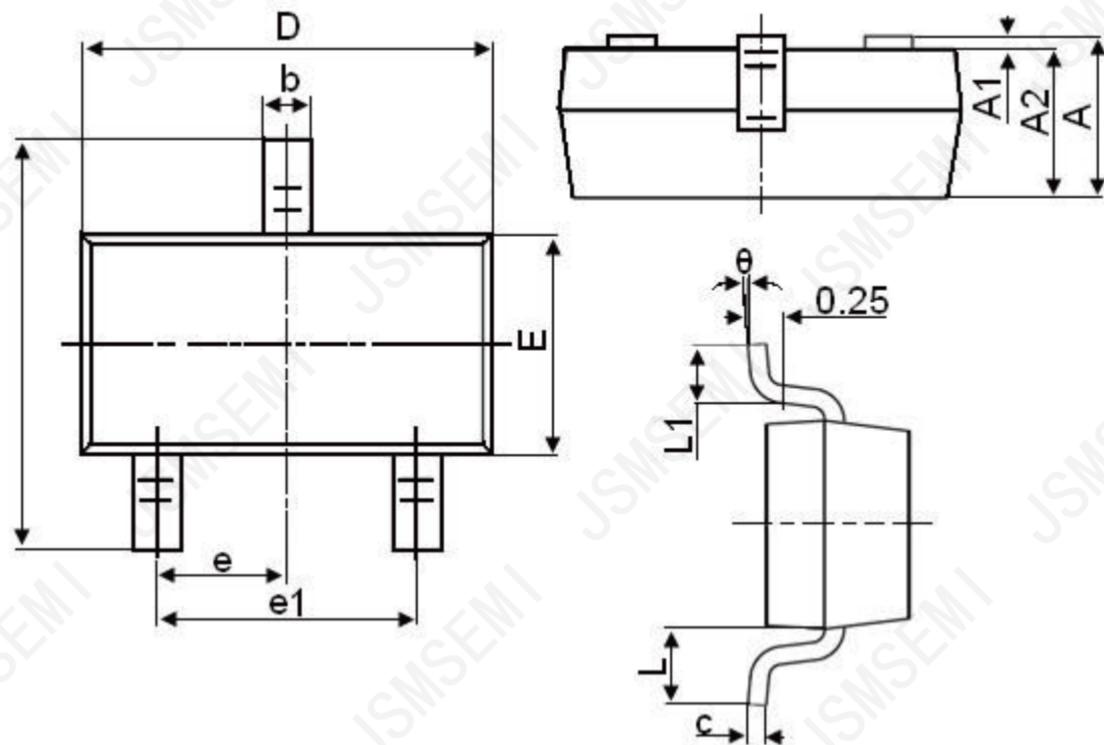
Symbol	Parameter	Value	Unit
V_R	DC Blocking Voltage	70	V
I_F	Forward Continuous Current	70	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@8.3mS	100	mA
P_d	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	500	°C/W
T_J	Operating Junction Temperature Range	-40~+125	°C
T_{stg}	Storage Temperature Range	-55~+150	°C

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

Symbol	Parameter	Test conditions	Min	Max	Unit
$V_{(BR)}$	Reverse breakdown voltage	$I_R=10\mu A$	70		V
I_R	Reverse current	$V_R=50V$		100	nA
V_F	Forward voltage	$I_F=1mA$		410	mV
		$I_F=15mA$		1000	mV
C_D	Diode capacitance	$V_R=0V, f=1MHz$		2	pF
t_{rr}	Reverse recovery time	$I_F=I_R=10mA, I_{rr}=0.1XI_R, R_L=100\Omega$		5	nS

Typical Characteristics


 FORWARD VOLTAGE V_F (V)

 REVERSE VOLTAGE V_R (V)

 REVERSE VOLTAGE V_R (V)

 AMBIENT TEMPERATURE T_a (C)

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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