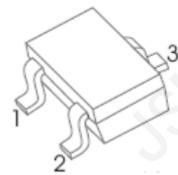
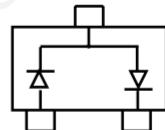


FEATURES

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

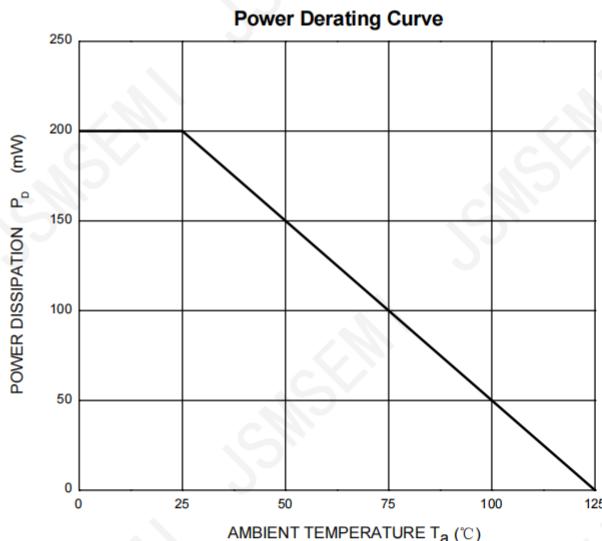
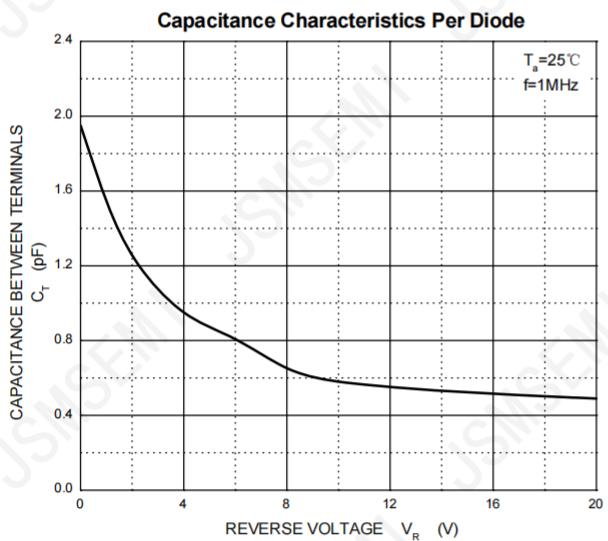
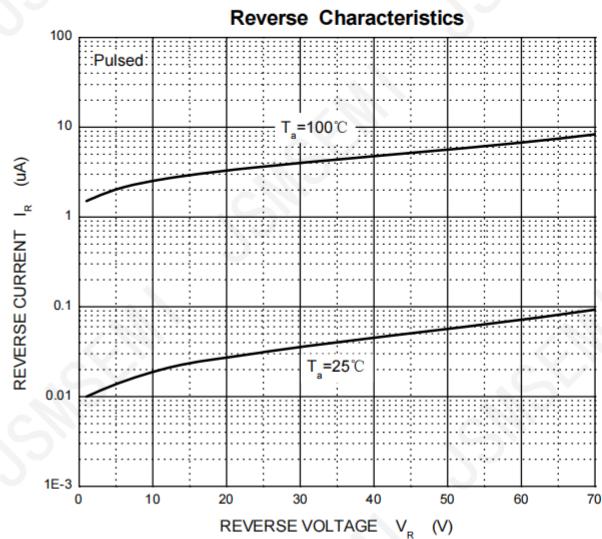
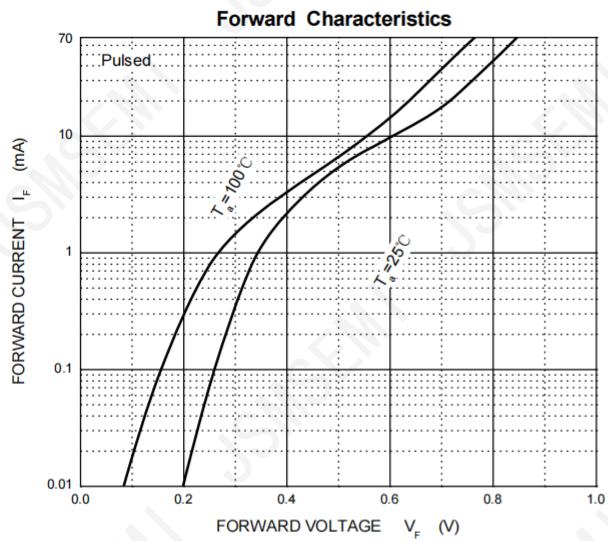

SOT-323

MAXIMUM RATINGS @ $T_a=25^\circ\text{C}$

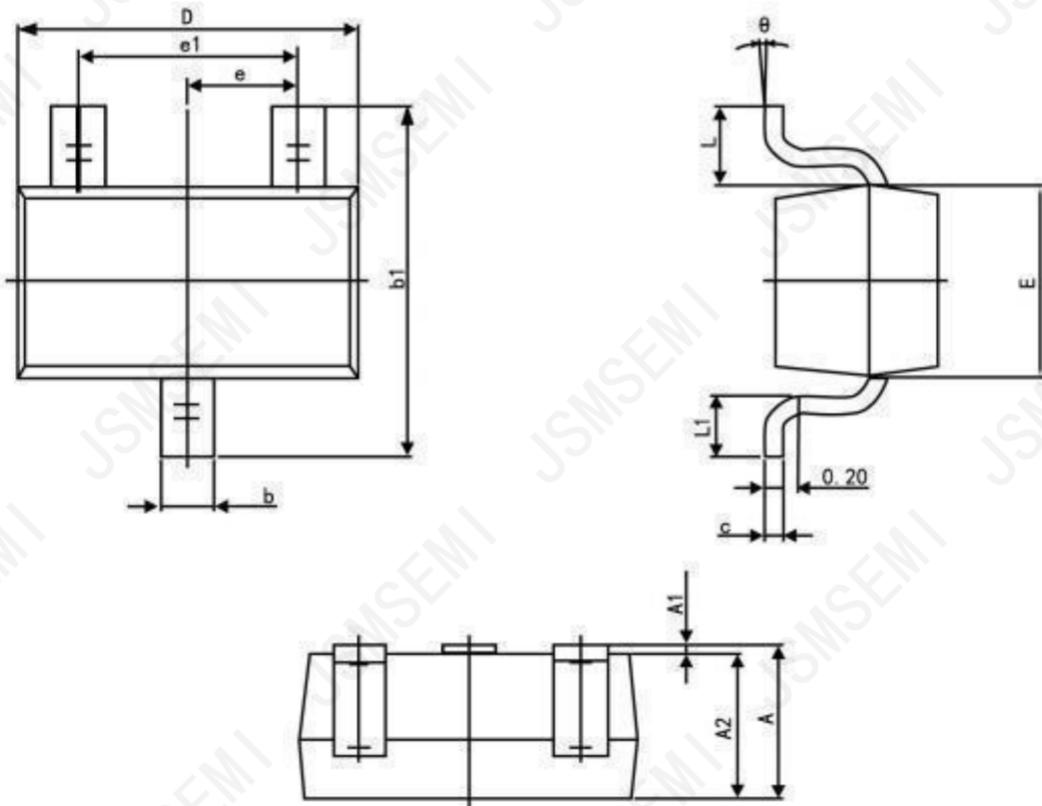
Symbol	Parameter	Value	Unit
V_R	DC Voltage	70	V
I_F	Forward Continuous Current	70	mA
$I_{F\text{SM}}$	Non-Repetitive Peak Forward Surge Current @ $t = 8.3\text{ms}$	100	mA
P_D	Power Dissipation	200	mW
$R_{\theta\text{JA}}$	Thermal Resistance from Junction to Ambient	500	°C/W
T_J	Junction Temperature	125	°C
T_{stg}	Storage Temperature	-55~+150	°C

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless otherwise specified)

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

Typical Characteristics



SOT-323 Package Outline Dimensions


Symbol	Dimension in Millimeters	
	Min	Max
A	0.900	1.100
A1	0.000	0.100
A2	0.900	1.000
b	0.200	0.400
c	0.080	0.150
D	2.000	2.200
E	1.150	1.350
E1	2.150	2.450
e	0.650 TYP.	
e1	1.200	1.400
L	0.525 REF.	
L1	0.260	0.460
theta	0°	8°

Revision History

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

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