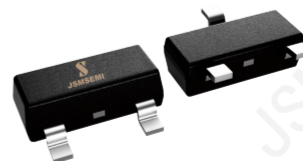


## FEATURES

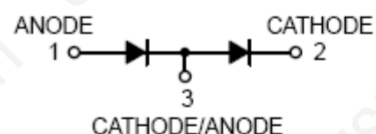
- Fast switching speed.
- High conductance
- Connected in series
- Surface mount package ideally suited for automatic insertion



**SOT-323**

## APPLICATIONS

- For general purpose switching application.

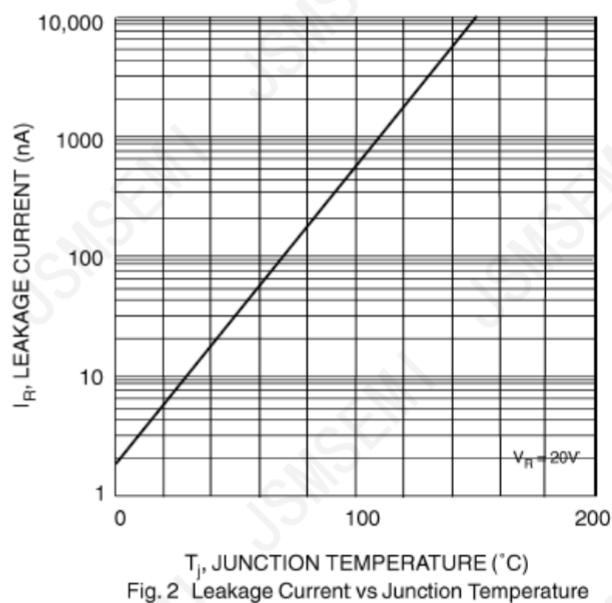
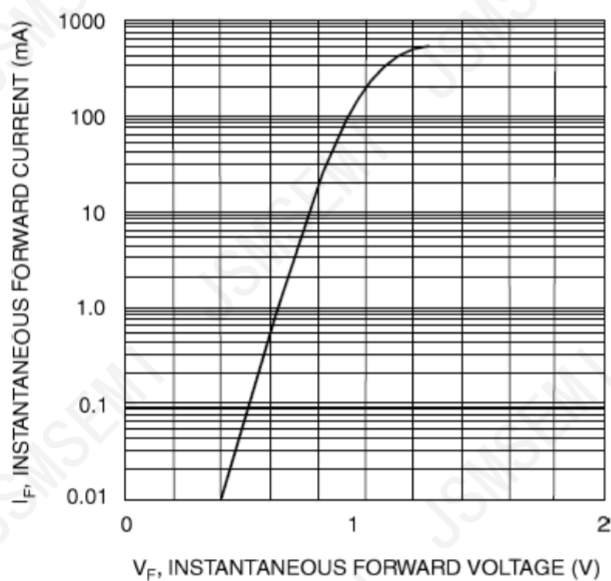


## MAXIMUM RATING @ Ta=25°C unless otherwise specified

Parameter	Symbol	Value	Unit
Non repetitive peak reverse voltage	$V_{RM}$	100	V
Repetitive peak reverse voltage Working peak reverse voltage DC Reverse voltage	$V_{RRM}$ $V_{RWM}$ $V_R$	75	V
Peak forward surge current @t=1.0s @t=1.0μs	$I_{FSM}$	1.0 2.0	A
Forward continuous current	$I_{FM}$	300	mA
Average rectified output current	$I_O$	150	mA
Power dissipation	$P_d$	200	mW
Operating and storage temperature range	$T_j, T_{STG}$	-65-150	°C

**ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**

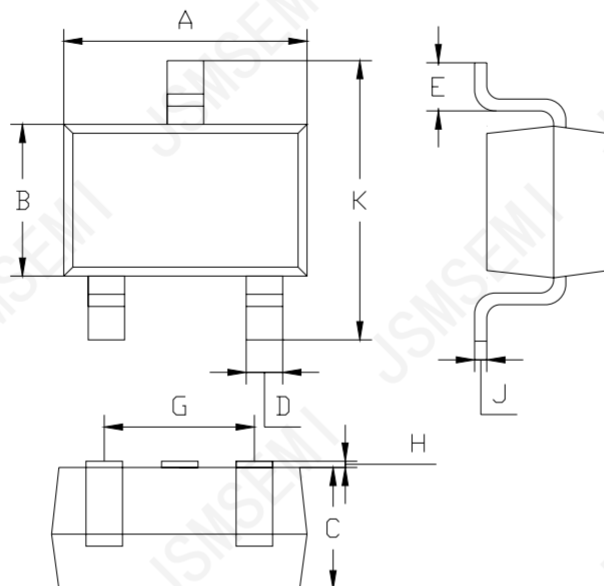
Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse voltage leakage current	$I_R$	$V_R=75V$ $V_R=20V$		2.5 25	A nA
Forward voltage	$V_F$	$I_F=1mA$ $I_F=10mA$ $I_F=50mA$ $I_F=150mA$		715 855 1000 1250	mV
Junction capacitance	$C_j$	$V_R=0V$ $f=1MHz$		2.0	pF
Reverse recovery time	$t_{rr}$	$I_F=I_R=10mA$ $V_R=5V$ $R_C=100\Omega$		4	nS

**TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**


## PACKAGE OUTLINE

Plastic surface mounted package

SOT-323



SOT-323		
Dim	Min	Max
A	1.8	2.2
B	1.15	1.35
C	1.0Typical	
D	0.15	0.35
E	0.25	0.40
G	1.2	1.4
H	0.02	0.1
J	0.1Typical	
K	2.1	2.3
All Dimensions in mm		

## Revision History

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

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