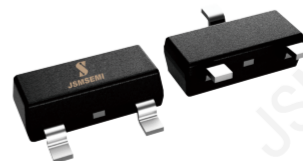


FEATURES

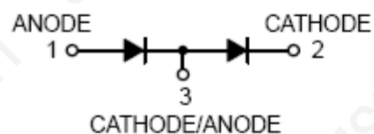
- Fast switching speed.
- High conductance
- Connected in series
- Surface mount package ideally suited for automatic insertion



SOT-323

APPLICATIONS

- For general purpose switching application.

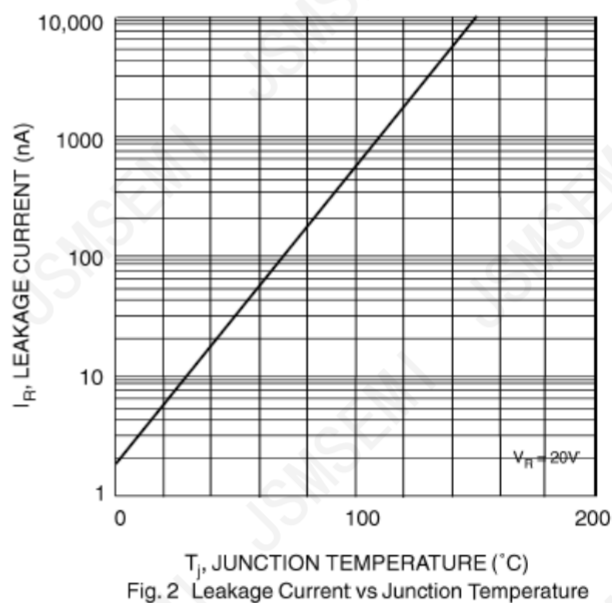
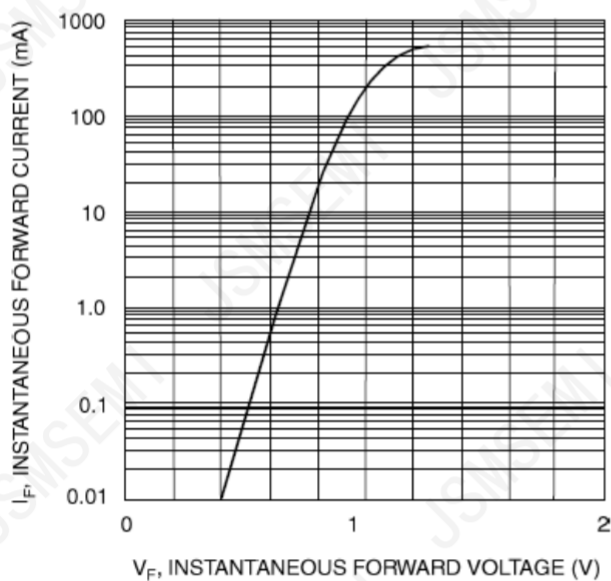


MAXIMUM RATING @ Ta=25°C unless otherwise specified

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

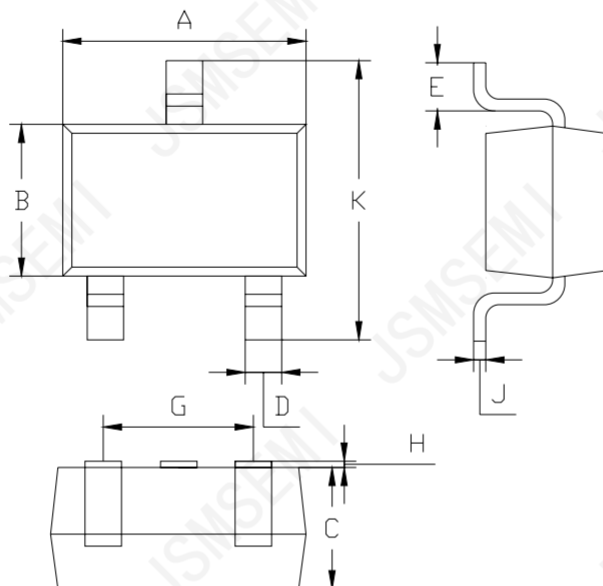
Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse voltage leakage current	I_R	$V_R=75V$ $V_R=20V$		2.5 25	A nA
Forward voltage	V_F	$I_F=1mA$ $I_F=10mA$ $I_F=50mA$ $I_F=150mA$		715 855 1000 1250	mV
Junction capacitance	C_j	$V_R=0V$ $f=1MHz$		2.0	pF
Reverse recovery time	t_{rr}	$I_F=I_R=10mA$ $V_R=5V$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