

Features

- ◆ Low Reverse Current
- ◆ Surface Mount Package Ideally Suited for Automatic Insertion
- ◆ Fast Switching Speed
- ◆ For General Purpose Switching Applications



SOD-323



Equivalent Circuit

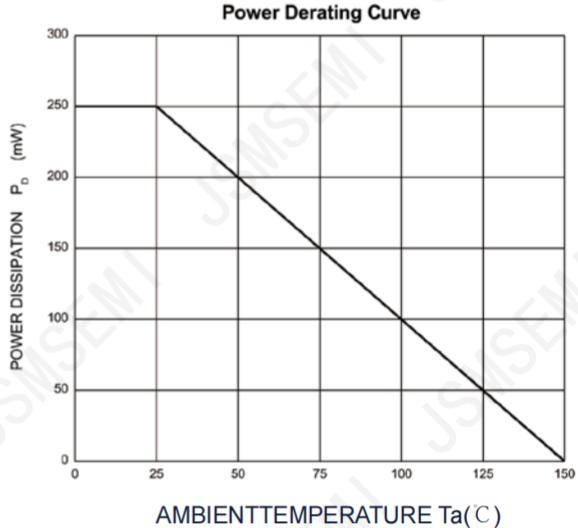
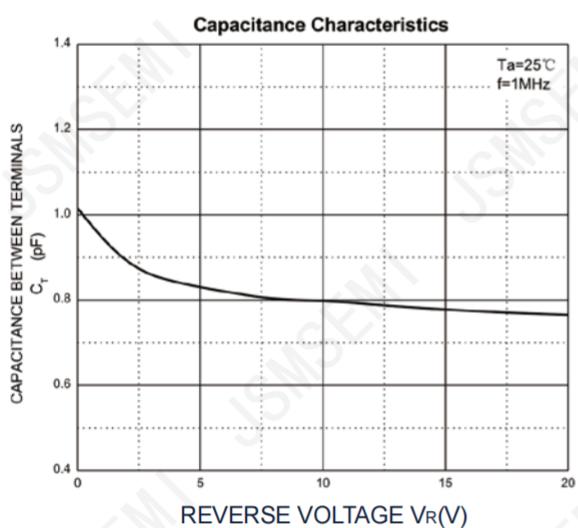
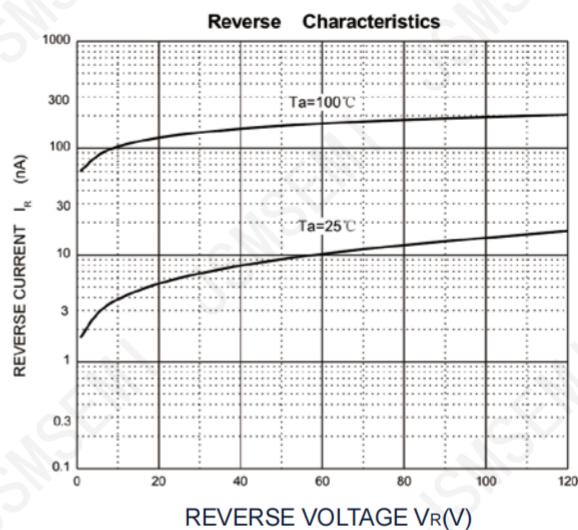
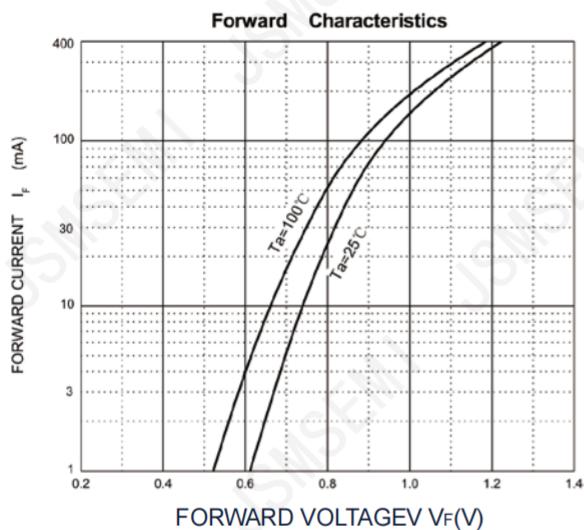
Absolute Maximum Ratings (TA=25°C)

Symbol	Parameter	Value	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	250	V
V_{RRM}	Peak Repetitive Reverse Voltage	200	V
V_{RWM}	Working Peak Reverse Voltage		
$V_{R(RMS)}$	RMS Reverse Voltage	141	V
I_o	Average Rectified Output Current	200	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current @ t=8.3ms	2.0	A
P_d	Power Dissipation	250	mW
R_{ojA}	Thermal Resistance From Junction To Ambient	500	°C/W
T_j	Operating Junction Temperature Range	150	°C
T_{stg}	Storage Temperature Range	-55~+150	°C

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

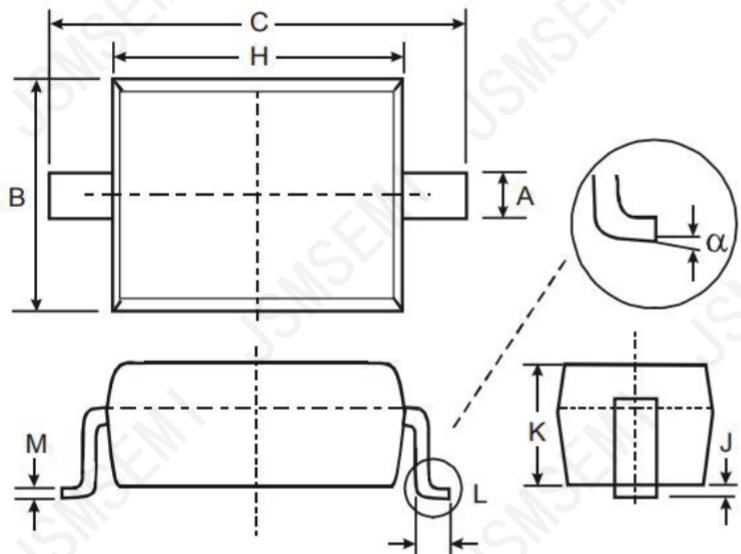
Symbol	Parameter	Test conditions	Min	Max	Unit
I_R	Reverse current	$V_R=200V$		0.1	μA
V_F	Forward voltage	$I_F=100mA$		1	V
		$I_F=200mA$		1.25	V
C_{tot}	Total capacitance	$V_R=0V, f=1MHz$		5	pF
t_{rr}	Reverse recovery time	$I_F=I_R=30mA, I_{rr}=0.1 \times I_R, R_L=100\Omega$		50	nS

Typical Characteristics

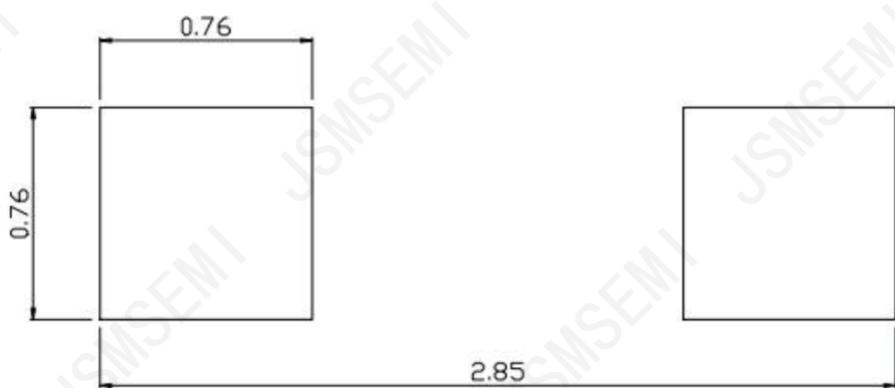


Package Outline Dimensions

SOD323



SYMBOL	MILLIMETERS	
	MIN	MAX
A	0.25	0.35
B	1.20	1.40
C	2.40	2.70
H	1.60	1.80
J	0.01	0.15
K	0.80	1.00
L	0.20	0.40
M	0.08	0.15
α	0°	8°

Soldering Footprint (mm)


Revision History

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

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For additional information please contact Kevin@jsmsemi.com or visit www.jsmsemi.com