

Features

- Guard ring protection
- Low forward voltage drop
- For use in low voltage, high frequency inverters
- High surge current capability



SOD-323



Equivalent Circuit

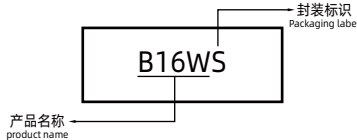
Absolute Maximum Ratings($T_A=25^{\circ}\text{C}$)

Symbol	Parameter	Value	Unit
V_{RRM}	Maximum recurrent peak reverse voltage	60	V
V_{RMS}	Maximum RMS voltage	42	V
V_{DC}	Maximum DC blocking voltage	60	V
I_F	Continuous forward current	1	A
I_{FSM}	Non-repetitive Peak forward surge current@ $t=8.3\text{ms}$	10	A
P_{tot}	Total power dissipation	250	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	400	$^{\circ}\text{C}/\text{W}$
T_J	Operation Junction Temperature Range	125	$^{\circ}\text{C}$
T_{STG}	Storage Temperature Range	-55~+150	$^{\circ}\text{C}$

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)}$	Maximum instantaneous forward voltage	$I_F=1\text{A}$			0.7	V
I_R	Maximum DC reverse current at rated DC blocking voltage	$V_R=60\text{V}$			0.1	mA
C_{tot}	Total capacitance	$V_R=4\text{V}, f=1\text{MHz}$			120	pF

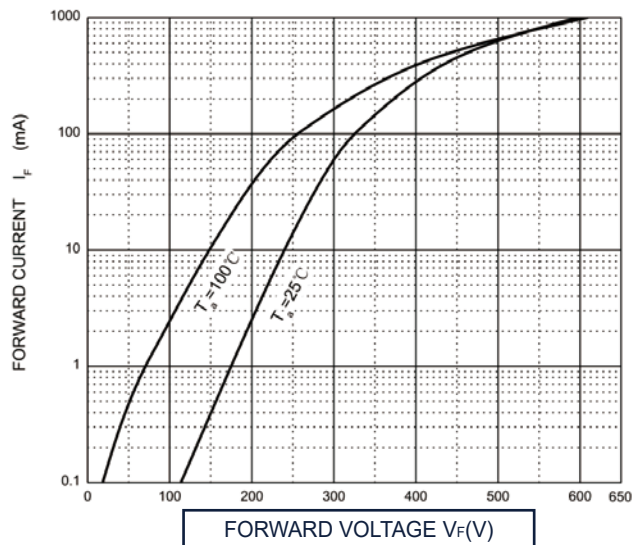
Ordering information

Product ID	Pack	Naming rule	Marking	Qty(PCS)
B16WS	SOD-323		SM	3000

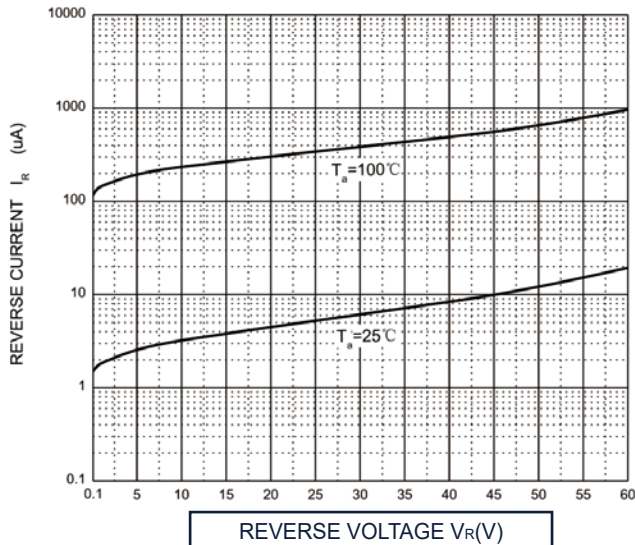


Typical Characteristics

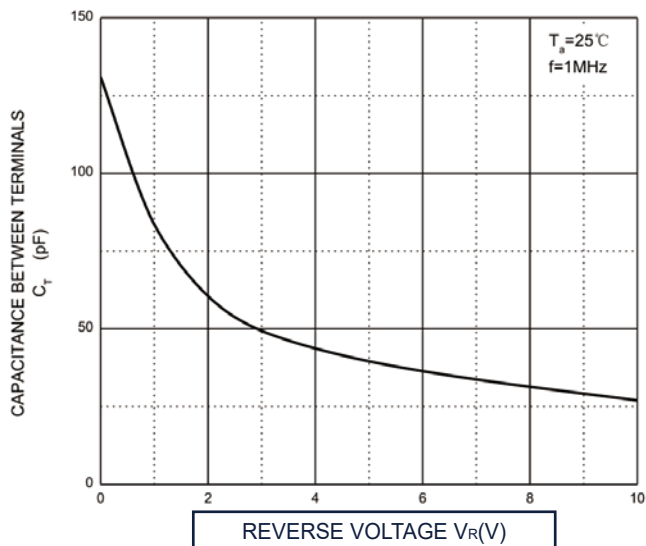
Forward Characteristics



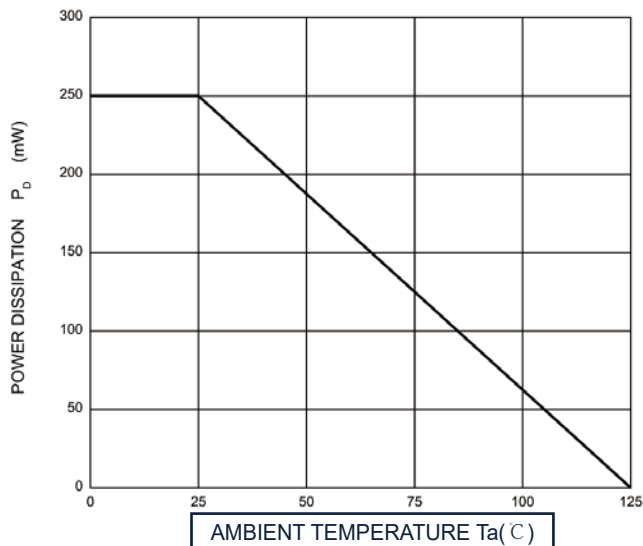
Reverse Characteristics



Capacitance Characteristics

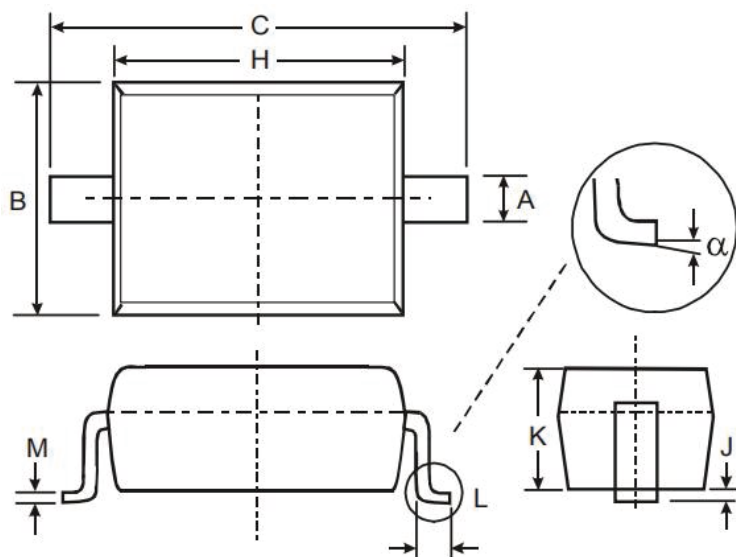


Power Derating Curve



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)

