

Features

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



SOD-323

Package Marking and Ordering Information

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



Maxmim Ratings (Ta=25 unless otherwise noted)

Symbol	Parameter	Value	Unit	
V_{RRM}	Maximum recurrent peak reverse voltage	60		
V _{RMS}	Maximum RMS voltage	42	V	
V _{DC}	Maximum DC blocking voltage	60		
I F	Continuous forward current	1	Α	
I _{FSM}	Non-repetitive Peak forward surge current@t=8.3ms	10		
P _{tot}	Total power dissipation	250	mW	
$R_{\theta JA}$	Thermal resistance junction to ambient air	400	°C/W	
TJ	Operating Junction Temperature Range	-40 ~ +125	°C	
Tstg	storage Temperature Range	-55 ~ +150	°C	

Electrcal Charcteristics (Ta=25 unless otherwise specified)

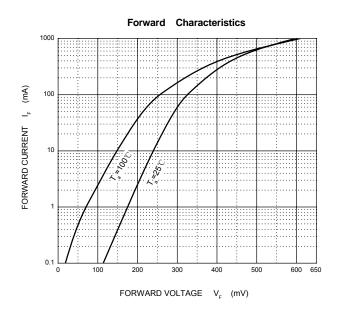
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Parameter	Symbol	Test con	ditions	Min	Тур	Max	Unit
Maximum instantaneous forward voltage	V_{F}	I _F =1A				0.7	V
Maximum DC reverse current at rated DC	1_	V _R =60V				0.1	mA
blocking voltage	IR	V _R -00 V				0.1	ША
Total capacitance	C_{tot}	V _R =4V,f=1MHz				120	pF

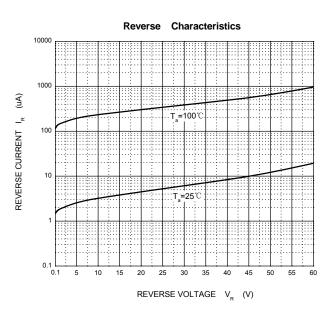
Notes:

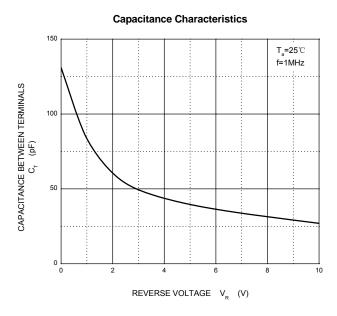
Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

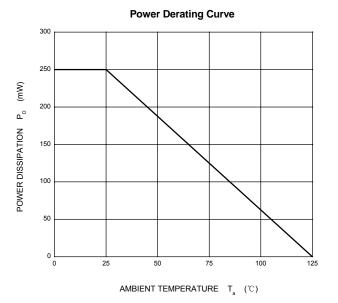


Typical Characteristics



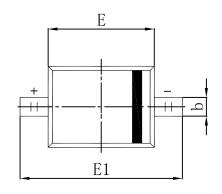


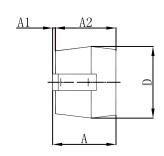


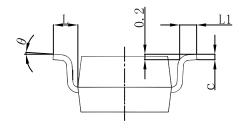




SOD-323 Package Outline Dimensions

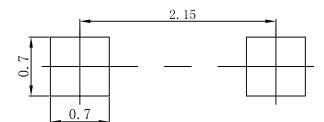






Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α		1.100		0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.800	1.000	0.031	0.039	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.500	2.750	0.098	0.108	
L	0.475 REF		0.019 REF		
L1	0.250	0.400	0.010	0.016	
θ	0°	8°	0°	8°	

SOD-323 Suggested Pad Layout



Note:

- 1. Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.



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