RECTRON SEMICONDUCTOR
TECHNICAL SPECIFICATION

B16WS

SOD-323 Plastic-Encapsulate Schottky Barrier Diode

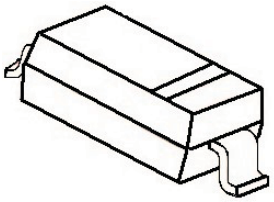
Features

- High Current Capability
- Low Forward Voltage Drop
- Low IR

Mechanical Data

- SOD-323 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Epoxy UL: 94V-0
- Mounting Position: Any

SOD-323



Marking: SM

Maximum Ratings & Thermal Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified.)

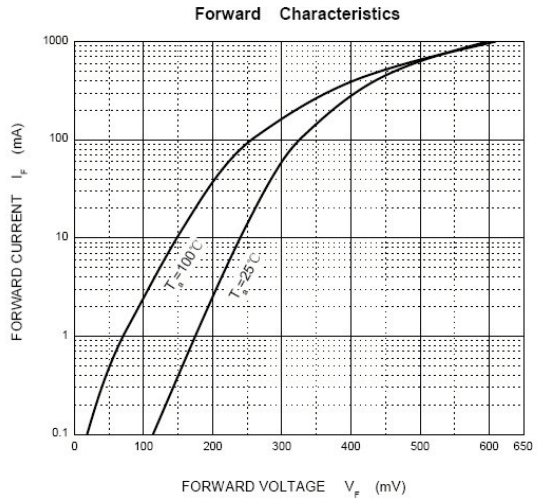
Parameters	Symbol	Value	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	60	V
Maximum RMS voltage	V_{RMS}	42	V
Maximum DC blocking voltage	V_{DC}	60	V
Maximum average forward rectified current	I_{FM}	1	A
Peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	10	A
Typical thermal resistance	$R_{\theta JA}$	400	℃/W
Power Dissipation	PD	250	mW
Junction temperature	Tj	125	℃
Storage temperature range	T_{STG}	-55-+150	℃

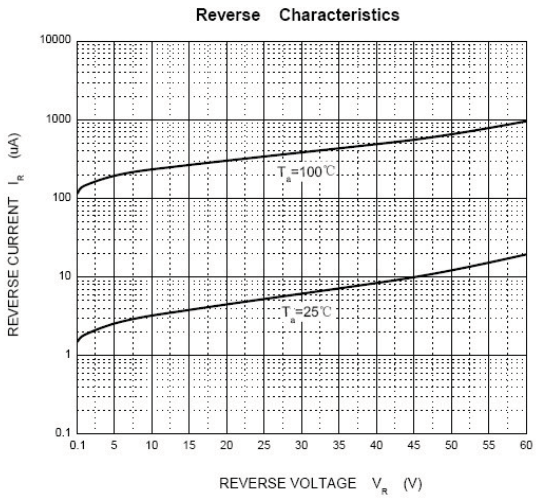
Electrical Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified).

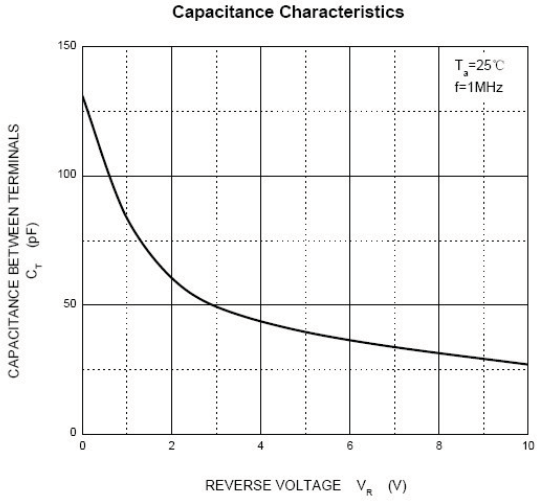
Parameters	Symbol	Test conditions	Value	Unit
Maximum forward voltage	V_F	IF = 1.0A	0.70(max.)	V
Maximum reverse current	I_R	VR=60V	100(max.)	uA

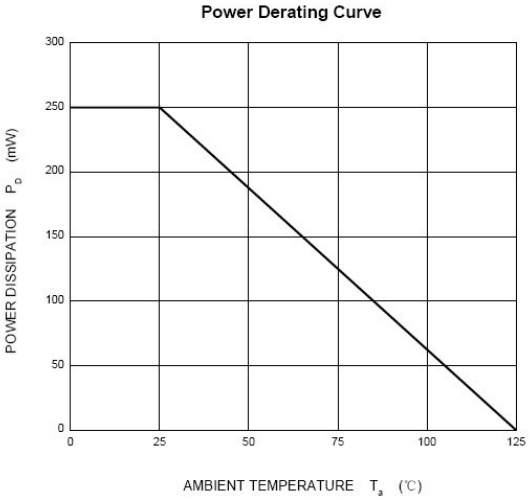
2022-01/97
REV:O

RATING AND CHARACTERISTICS CURVES (B16WS)





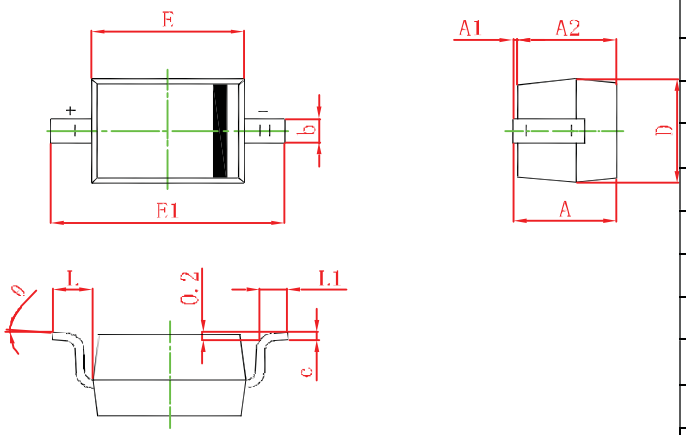




SOD-323 PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



Symbol	Min.(mm)	Max.(mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
θ	**0°**	**8°**

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SOD-323	-T	3,000	15,000	---	---	178	390*205*310	120,000	5.17

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