

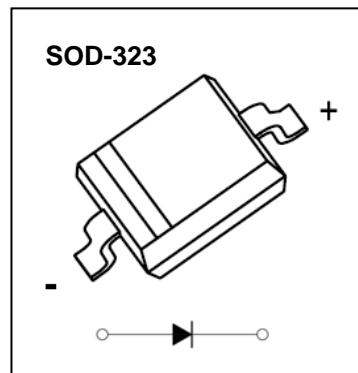


SOD-323 Plastic-Encapsulate Diodes

B5817WSZ-5819WSZ SCHOTTKY BARRIER DIODE

FEATURES

For use in low voltage, high frequency inverters
Free wheeling, and polarity protection applications



MARKING:

B5817WSZ:SJ	B5818WSZ:SK	B5819WSZ:SL
- [SJ] +	- [SK] +	- [SL] +

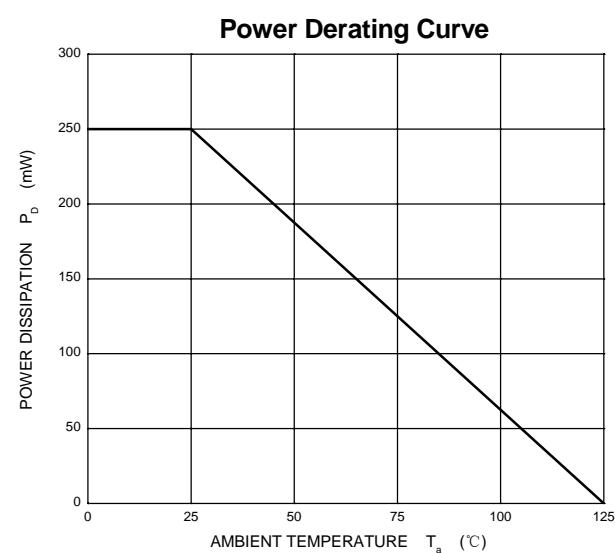
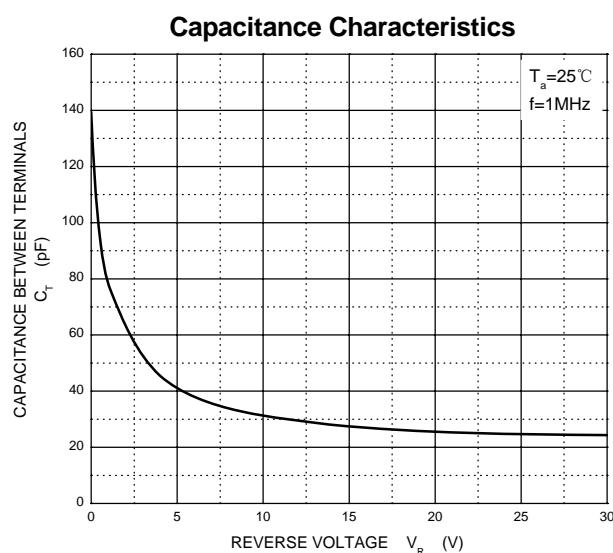
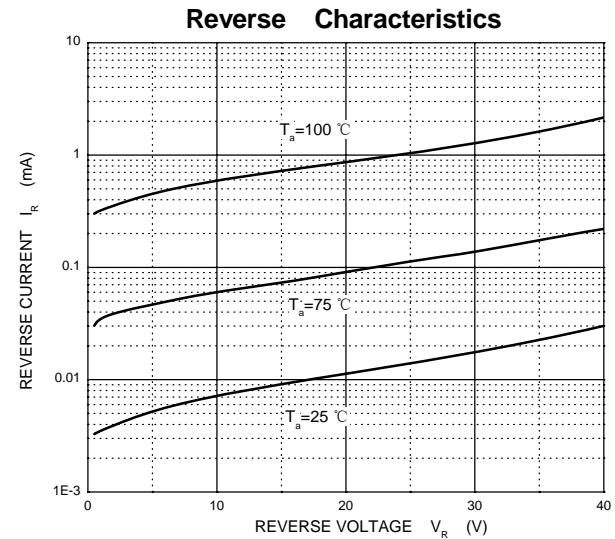
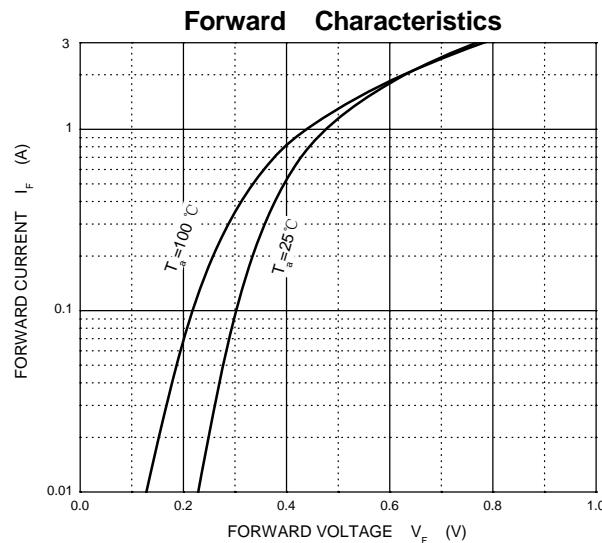
The marking bar indicates the cathode

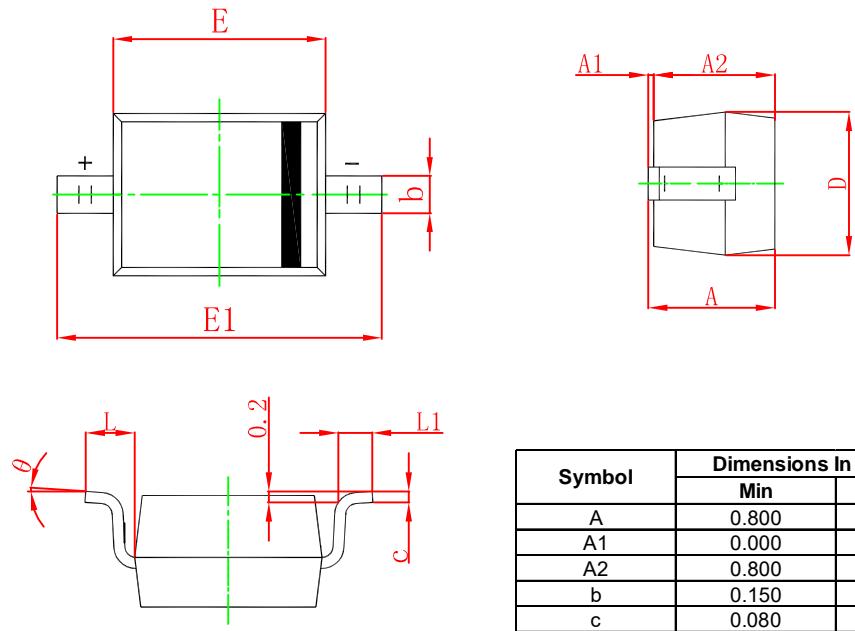
Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

Parameter	Symbol	B5817WSZ	B5818WSZ	B5819WSZ	Unit
Non-repetitive peak reverse voltage	V _{RM}	20	30	40	V
Peak repetitive peak reverse voltage	V _{RRM}				
Working peak reverse voltage	V _{RWM}	20	30	40	V
DC blocking voltage	V _R				
RMS reverse voltage	V _{R(RMS)}	14	21	28	V
Average rectified output current	I _O		1		A
Forward current (I _F)	I _{FSM}		9		A
Repetitive peak forward current	I _{FRM}		1.5		A
Power dissipation	P _d		250		mW
Thermal resistance junction to ambient	R _{θJA}		400		°C/W
Operation Junction temperature Range	T _J		-40~+125		°C
Storage temperature Range	T _{STG}		-55~+150		°C

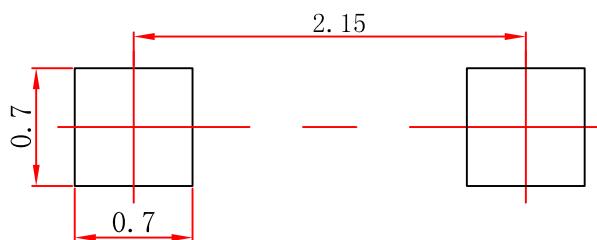
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R = 1mA B5817WSZ B5818WSZ B5819WSZ	20 30 40		V
Reverse voltage leakage current	I _R	V _R =20V V _R =30V V _R =40V B5817WSZ B5818WSZ B5819WSZ		1	mA
Forward voltage	V _F	B5817WSZ I _F =1A I _F =3A B5818WSZ I _F =1A I _F =3A B5819WSZ I _F =1A I _F =3A		0.45 0.75 0.55 0.875 0.6 0.9	V
Diode capacitance	C _D	V _R =4V, f=1MHz		120	pF



SOD-323 Package Outline Dimensions

Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.800	1.200	0.035	0.047
A1	0.000	0.100	0.000	0.004
A2	0.800	1.100	0.031	0.040
b	0.150	0.400	0.006	0.016
c	0.080	0.150	0.003	0.006
D	1.150	1.400	0.045	0.055
E	1.600	1.800	0.062	0.071
E1	2.300	2.800	0.091	0.110
L	0.300	0.500	0.012	0.020
L1	0.200	0.500	0.008	0.020
θ	0°	8°	0°	8°

SOD-323 Suggested Pad Layout**Note:**

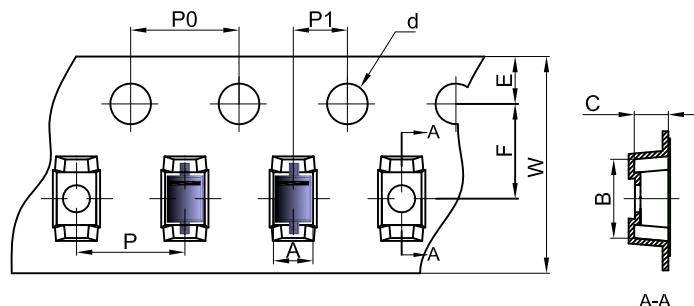
1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

NOTICE

JSCJ reserves the right to make modifications,enhancements,improvements,corrections or other changes without further notice to any product herein. JSCJ does not assume any liability arising out of the application or use of any product described herein.

SOD-323 Tape and Reel

SOD-323 Embossed Carrier Tape

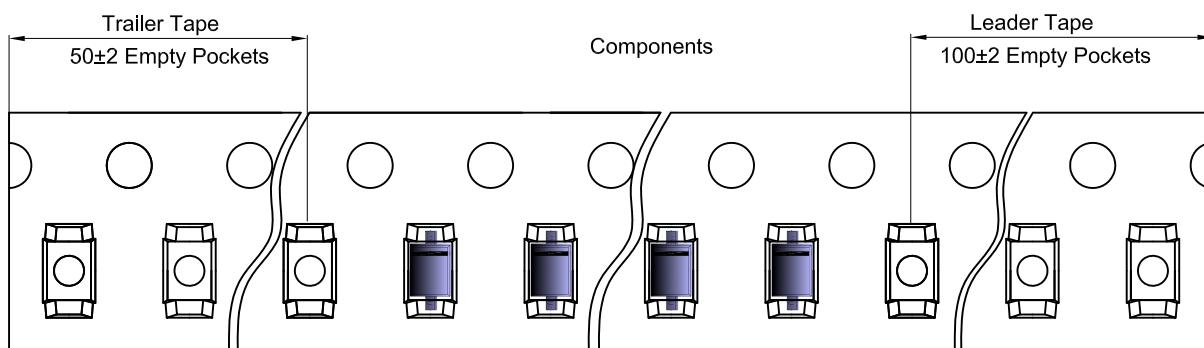


Packaging Description:

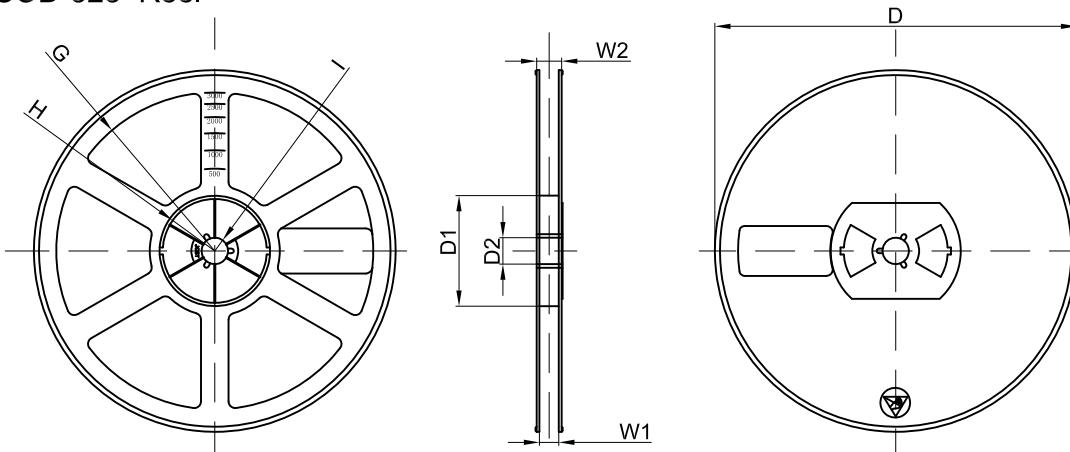
SOD-323 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 3,000 units per 7" or 17.8cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOD-323	1.48	3.3	1.25	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOD-323 Tape Leader and Trailer



SOD-323 Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7" Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	