

JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOD-323 Plastic-Encapsulate Diodes

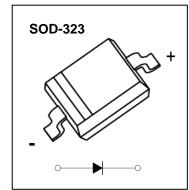
B5817WS-5819WS SCHOTTKY BARRIER DIODE

FEATURES

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

MARKING:

B5817WS:SJ	B5818WS:SK	B5819WS:SL		
- S J +	- SK +	- SL +		
-	-III ŞK III+	- II ŞL III +		



The marking bar indicates the cathode

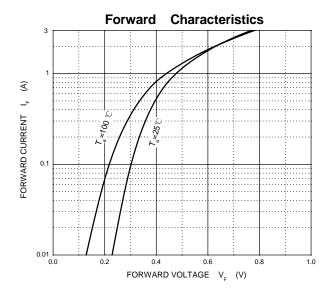
Solid dot = Green molding compound device,if none,
the normal device.

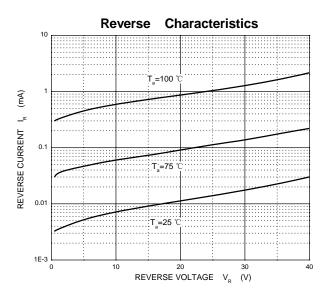
Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25℃

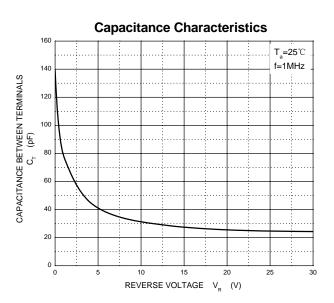
Parameter	Symbol	B5817WS	B5818WS	B5819WS	Unit
Non-repetitive peak reverse voltage	V_{RM}	20	30	40	V
Peak repetitive peak reverse voltage Working peak reverse voltage DC blocking voltage	V _{RRM} V _{RWM} V _R	20	30	40	V
RMS reverse voltage	$V_{R(RMS)}$	14	21	28	V
Average rectified output current	Io	1			Α
Bcb!fYdYf]fij Y'DYU_'Forward Gi f[Y'7 urrent 4 hl, " a g	I _{FSM}	9		А	
Repetitive peak forward current	I _{FRM}	1.5		Α	
Power dissipation	Pd	250		mW	
Thermal resistance junction to ambient	$R_{\theta JA}$	400		°C/W	
Junction temperature	TJ	125		${\mathfrak C}$	
Storage temperature	T _{STG}	-55~+150			$^{\circ}$

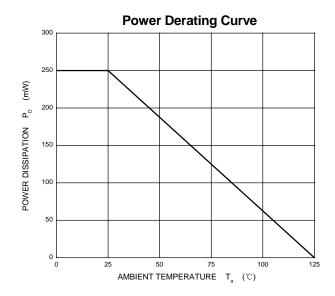
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test	conditions	Min	Max	Unit	
		I _R = 1mA					
Reverse breakdown voltage	V _(BR)		B5817WS	20		V	
Neverse breakdown voltage	V (BR)		B5818WS	30		V	
			B5819WS	40			
		V _R =20V	B5817WS				
Reverse voltage leakage current	I_R	V _R =30V	B5818WS		1	mA	
		V _R =40V	B5819WS				
		B5817WS	I _F =1A		0.45	V	
			I _F =3A		0.75	V	
Forward voltage	V_{F}	B5818WS	I _F =1A		0.55	V	
Forward voitage	VF		I _F =3A		0.875	V	
		B5819WS	I _F =1A		0.6	V	
			I _F =3A		0.9	V	
Diode capacitance	C _D	V _R =4V, f=1	MHz		120	pF	

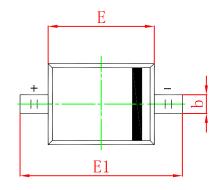


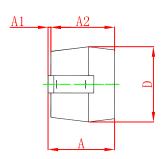


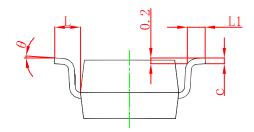




SOD-323 Package Outline Dimensions

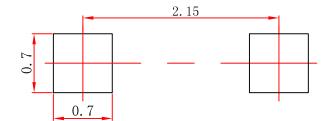






Cymph a l	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α		1.000		0.039	
A1	0.000	0.100	0.000	0.004	
A2	0.800	0.900	0.031	0.035	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	1.200	1.400	0.047	0.055	
E	1.600	1.800	0.063	0.071	
E1	2.550	2.750	0.100	0.108	
L	0.475 REF.		0.019	REF.	
L1	0.250	0.400	0.010	0.016	
θ	0°	8°	0°	8°	

SOD-323 Suggested Pad Layout



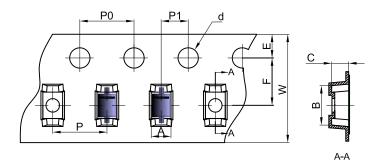
Note:

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

NOTICE

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

SOD-323 Embossed Carrier Tape

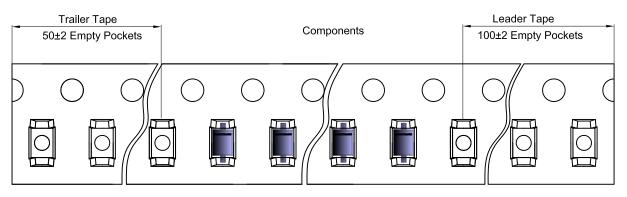


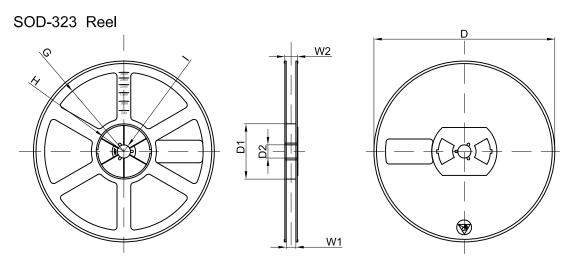
Packaging Description:

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	Α	В	С	d	E	F	P0	Р	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





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

REEL	Reel Size	Вох	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	