

B5819WS

Technical Data Data Sheet N2030, Rev. -

RoHS 🗭

B5819WS SCHOTTKY BARRIER DIODE



Circuit Diagram



Features

- For use in low voltage, high frequency inverters
- Free wheeling, and polanty protection applications
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Data

- Case: Molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750,
- Method 2026
- Polarity: Polarity symbols marked on case
- Marking: B5819WS:SLS

Maximum Ratings @T_A=25°C unless otherwise specified

Parameter Marking code	Symbol	B5819WS SLS	Units
Maximum repetitive peak reverse voltage	V _{RRM}	40	V
Maximum DC blocking voltage	V _R	40	
Maximum RMS voltage	V _{R(RMS)}	28	V
Average rectified output current	lo	1.0	A
Peak forward surge current 8.3ms single half sine- wave superimposed on rated load (JEDEC Method)	IFSM	9	A
Power Dissipation	Pd	250	mW
Typical thermal resistance	R _{ØJA}	500	°C/W
Operating junction and storage temperature range	TJ, TSTG	-65 to +150	°C

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Units	Test Condition
Reverse Breakdown Voltage *	V _(BR)	40	-	V	I _R =1mA
Forward Voltage *	V _{FM}	-	0.6	V	I _F =1A
		-	0.9	V	I⊧=3A
Reverse Leakage Current *	I _{RM}	-	200	μA	V _R =40V
Capacitance between terminals	Ст	-	120	pF	V _R =4V,f=1.0MHz

 $^*\,$ Pulse width < 300 $\mu s,\,$ duty cycle < 2%

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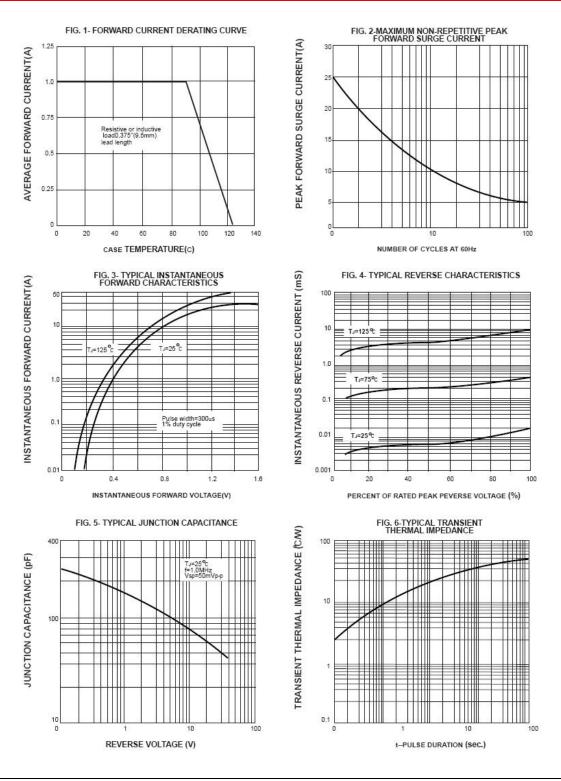


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Ratings and Characteristics Curves



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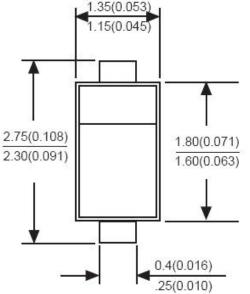
Ordering Information

Device

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packaging specification.

Mechanical Dimensions SOD-323(Inches/Millimeters)



Package

SOD-323

(Pb-Free)

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel

Carrier Tape Specification SOD-323

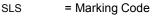
Shipping

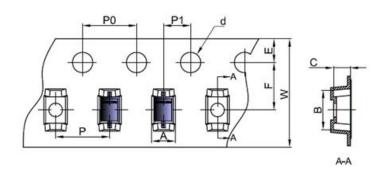
3000pcs / reel

Marking Diagram



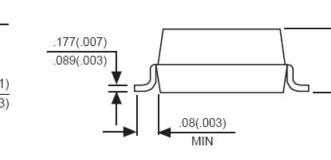






SYMB	Millimeters			
OL	Min.	Max.		
В	2.85	2.95		
С	1.20	1.30		
d	1.40	1.60		
E	1.65	1.85		
F	3.40	3.60		
Р	3.90	4.10		
P0	3.90	4.10		
P1	1.90	2.10		
W	7.90	8.30		







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1.00(.040)

0.80(.031)



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