



HAICHUANG SEMI

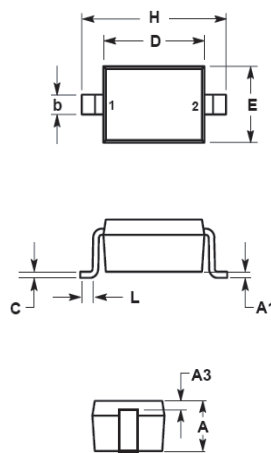
1N5817WS/1N5818WS/1N5819WS

40V/1A SCHOTTKY BARRIER DIODE

Features

- Low Forward Voltage Drop.
- Surface Mounted Device.
- Pb free and RoHS compliant.

DEVICE	MARKING
1N5817WS	SJ
1N5818WS	SK
1N5819WS	SL



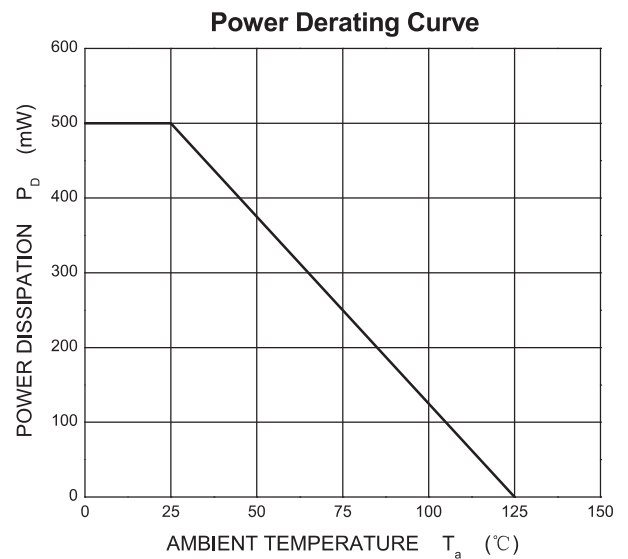
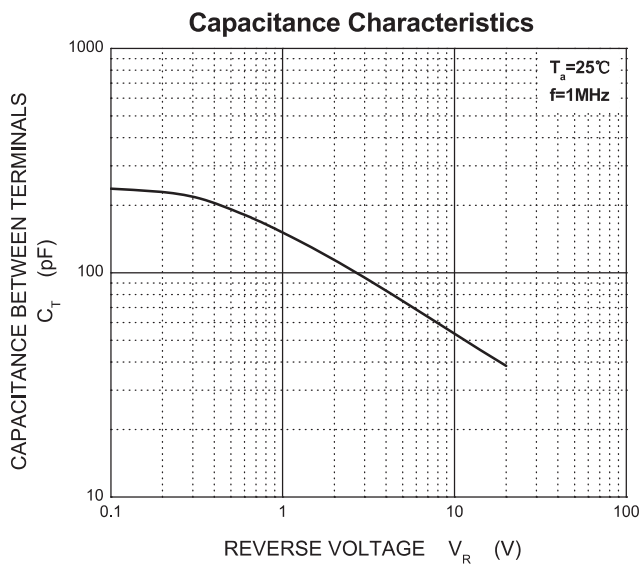
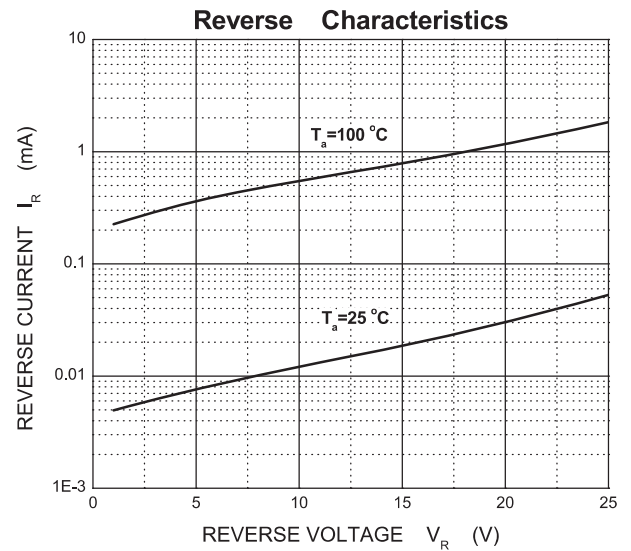
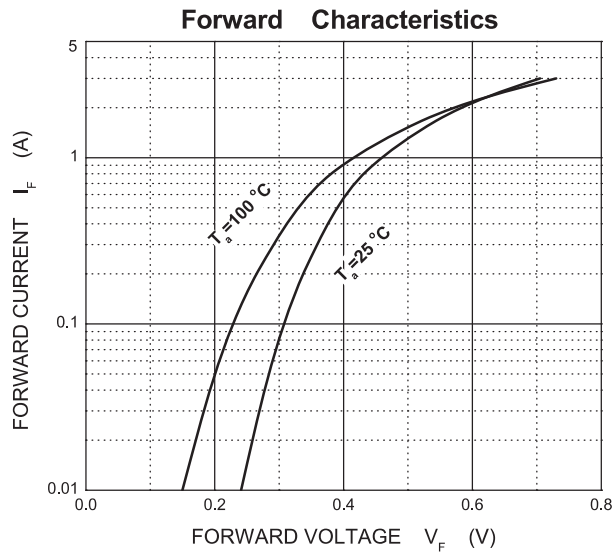
SOD-323		
Dim.	Min.	Max.
A	0.80	1.10
A1	0.00	0.10
A3	0.15 REF	
B	0.25	0.40
C	0.10	0.15
D	1.60	1.80
E	1.15	1.35
L	0.20	0.50
H	2.30	2.80
Dimensions in millimeter		

Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

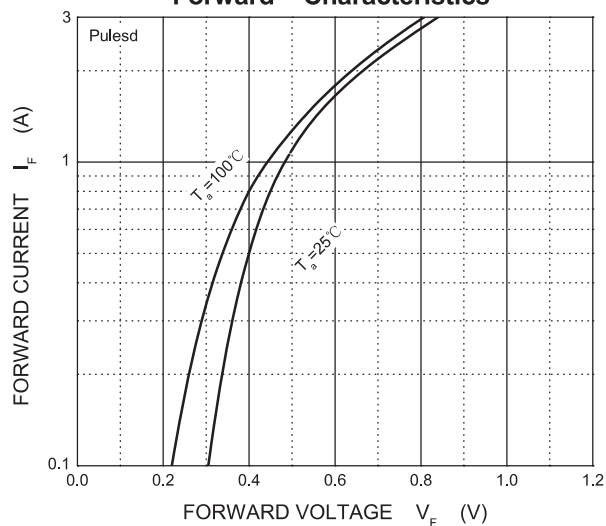
Parameters	Symbol	1N5817WS	1N5818WS	1N5819WS	Unit
Maximum repetitive peak reverse voltage	VRRM	20	30	40	V
Maximum RMS voltage	VRMS	14	21	28	V
Maximum DC blocking voltage	VDC	20	30	40	V
Maximum average forward rectified current	IFM	1.0			A
Peak forward surge current 8.3 ms single half sine-wave	IFSM	9			A
Typical thermal resistance	R θ JA	400			$^\circ\text{C}/\text{W}$
Power Dissipation	PD	250			mW
Operating junction temperature	Tj	125			$^\circ\text{C}$
Storage temperature range	TSTG	-50-+150			$^\circ\text{C}$

Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

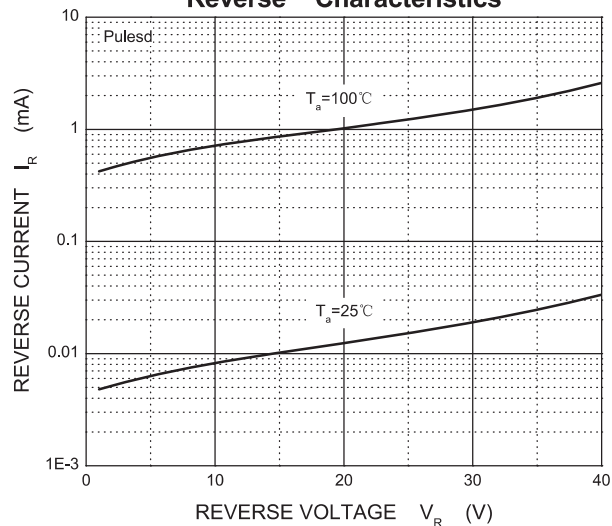
Parameters	Symbol	Test conditions	1N5817WS	1N5818WS	1N5819WS	
Maximum forward voltage	V _F	IF = 1.0A IF = 3.0A	0.450 0.750	0.550 0.875	0.600 0.900	V
Maximum reverse breakdown voltage	VR	IR=1mA	20	30	40	V
Maximum reverse current	IR	VR=20V 1N5817WS	20			μA
		VR=30V 1N5818WS	250			
		VR=40V 1N5819WS				
Type junction capacitance	Cj	VR = 4.0V, f = 1MHz	120			pF



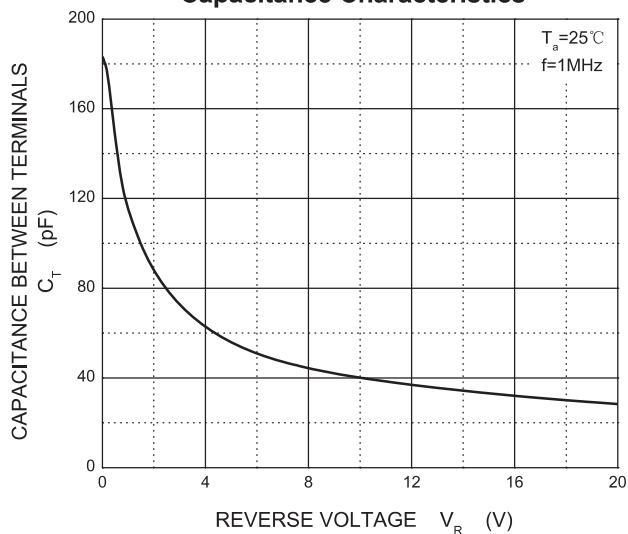
Forward Characteristics



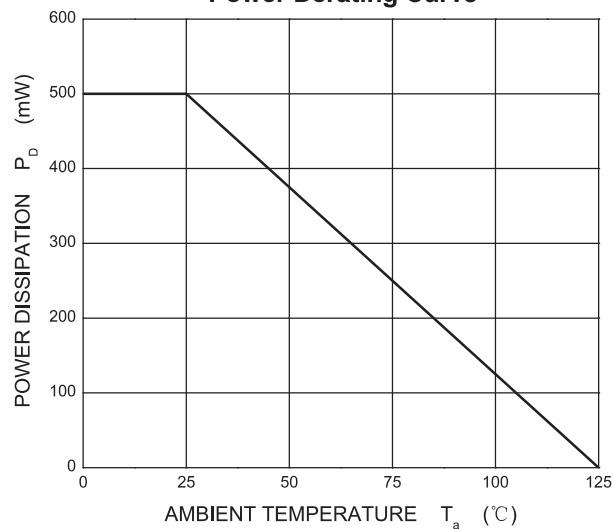
Reverse Characteristics

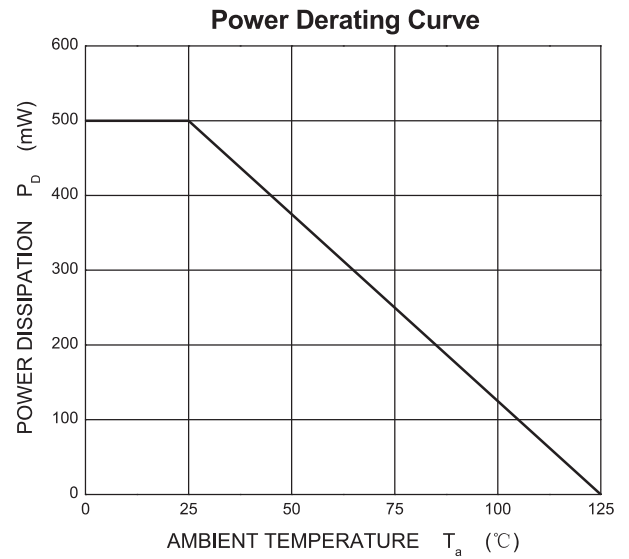
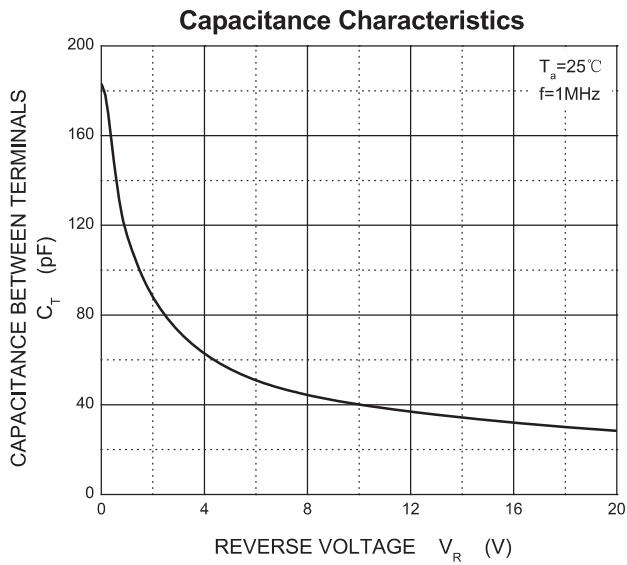
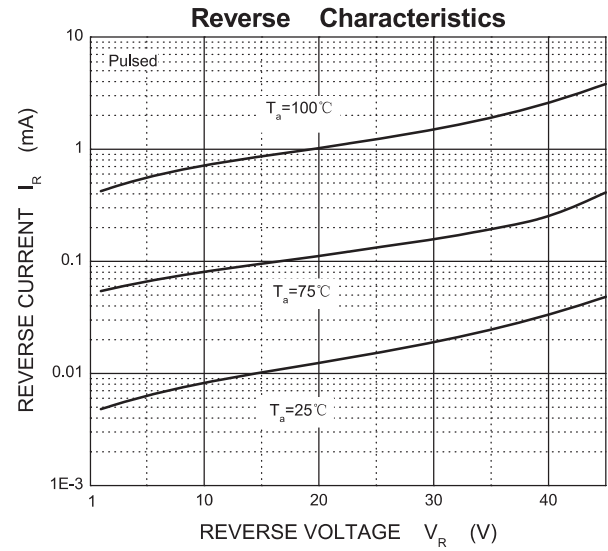
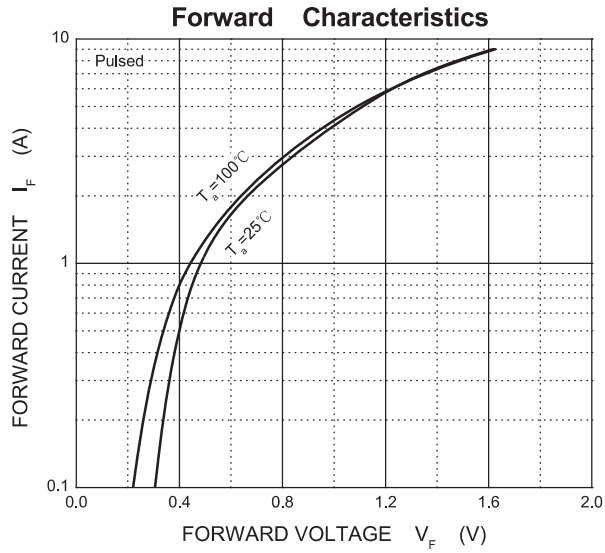


Capacitance Characteristics



Power Derating Curve





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