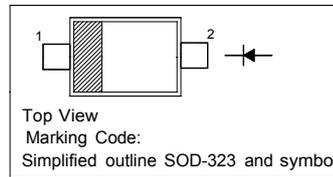


1A Surface Mount SchottkyBarrier Diode



MARKING: B5817WS: SJ
 B5818WS: SK
 B5819WS: SL

Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

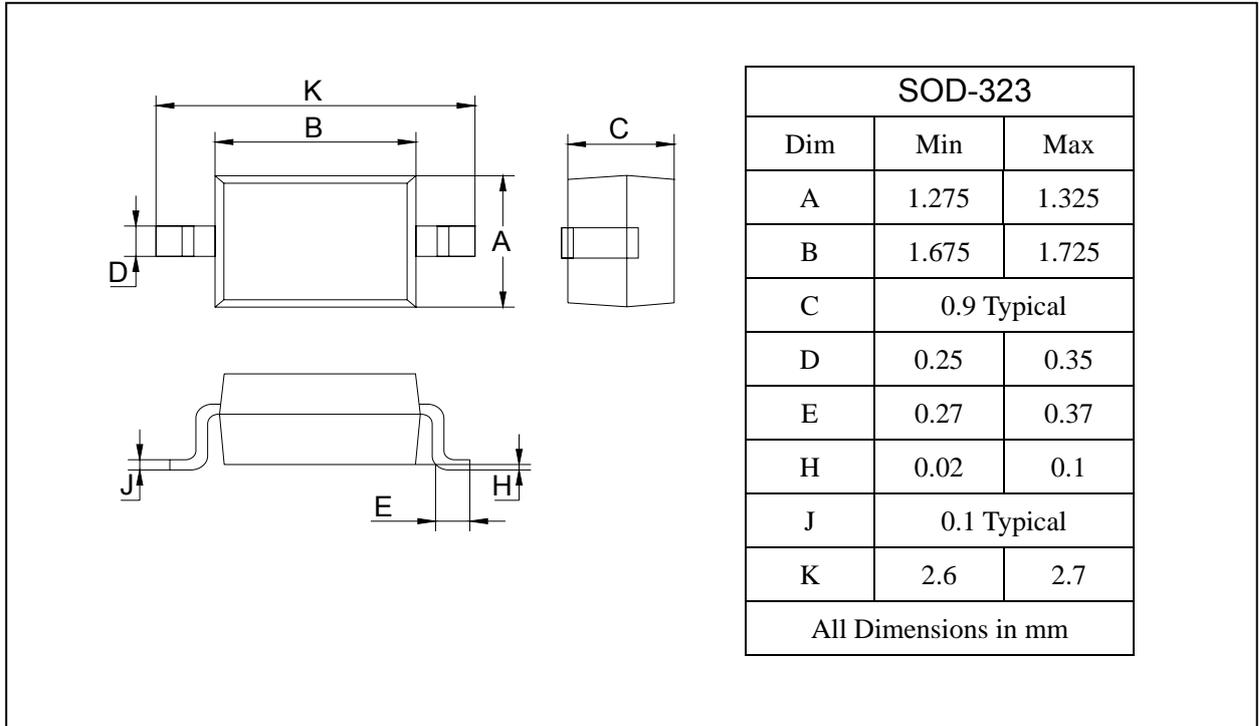
Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	B5817WS 20	V
		B5818WS 30	
		B5819WS 40	
Average Forward Rectified Current	$I_{F(AV)}$	1	A
Non-Repetitive Peak Forward Surge Current ($t = 8.3\text{ ms}$)	I_{FSM}	9	A
Power Dissipation	P_{tot}	450	mW
Operating Temperature Range	T_j	- 55 to + 125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 125	$^\circ\text{C}$

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

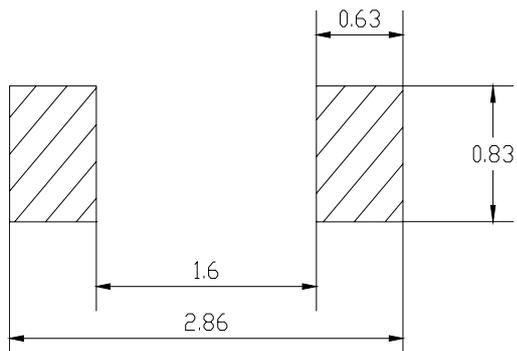
Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 1\text{ mA}$	$V_{(BR)R}$	B5817WS 20	-	V
		B5818WS 30	-	
		B5819WS 40	-	
Forward Voltage at $I_F = 1\text{ A}$	V_F	B5817WS -	0.45	V
		B5818WS -	0.55	
		B5819WS -	0.6	
at $I_F = 3\text{ A}$	V_F	B5817WS -	0.75	V
		B5818WS -	0.875	
		B5819WS -	0.9	
Reverse Voltage Leakage Current at $V_R = 20\text{ V}$ at $V_R = 30\text{ V}$ at $V_R = 40\text{ V}$	I_R	B5817WS -	1	mA
		B5818WS -	1	
		B5819WS -	1	
Total Capacitance at $V_R = 4\text{ V}$, $f = 1\text{ MHz}$	C_{tot}	-	120	pF

Plastic surface mounted package

SOD-323



SOLDERING FOOTPRINT



Unit : mm

Typical Characteristics

