

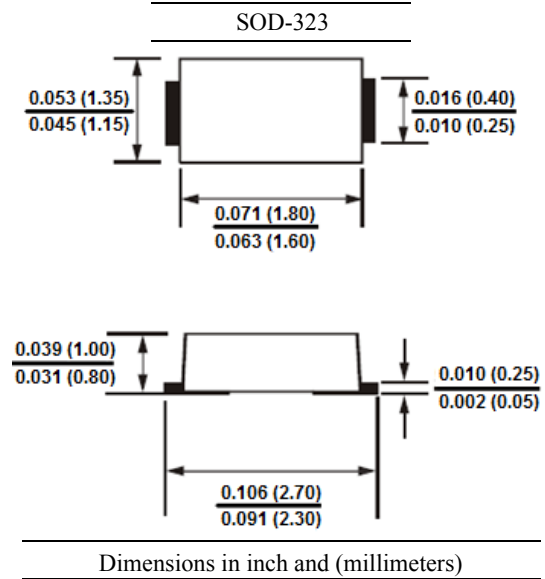


B5819WS

SCHOTTKY DIODES

FEATURES

- Low Forward Voltage Drop
- Flat Lead SOD-323 Small Outline Plastic Package
- Surface Device Type Mounting
- Suffix "H" indicates Halogen-free parts, ex.B5819WSH



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

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	250	mW
Repetitive Peak Reverse Voltage	V_{RM}	40	V
Average Rectified Output Current	I_O	1	A
Peak Forward Surge Current (at 8.3ms single half sine-wave)	I_{FSM}	9	A
Operating Junction Temperature	T_J	+125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +125	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit	Conditions
Reverse Breakdown Voltage	V_{BR}	40	--	V	$I_R = 1\text{mA}$
Reverse Leakage Current	I_R	--	1	mA	$V_R = 40\text{V}$
Forward Voltage	V_F	--	0.6	V	$I_F = 1\text{A}$
Diode Capacitance	C_d	30 (Typical)		pF	$V_R = 4\text{V}$, $f = 1\text{MHz}$



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Typical Characteristics

