Dimensions SOD-323FL

FEATURES

For use in low voltage, high frequency inverters

Free wheeling, and polarity protection applications.

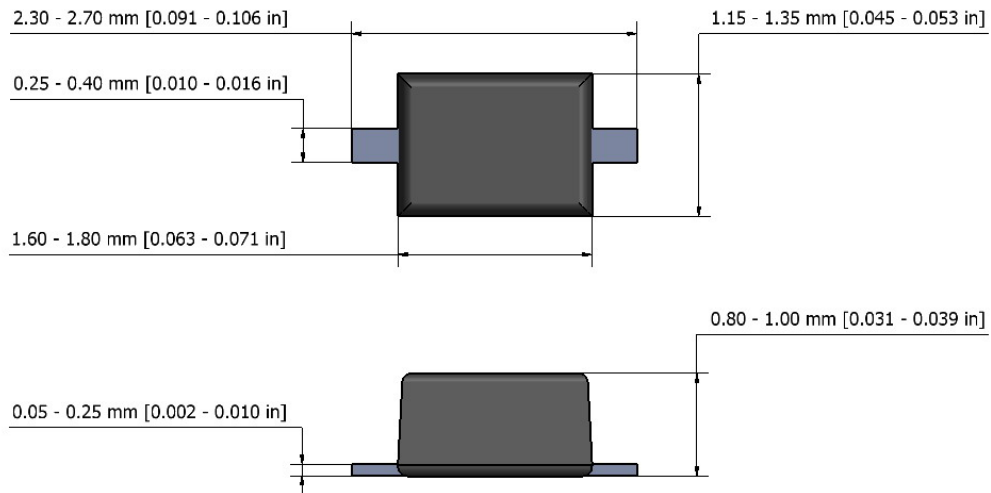**MARKING:** SM5817WS: SJ

SM5818WS:SK

SM5819WS: SL

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

Parameter	Symbol	SM5817WS	SM5818WS	SM5819WS	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	I_O	1			A
Peak forward surge current @=8.3ms	I_{FSM}	9			A
Repetitive Peak Forward Current	I_{FRM}	1.5			A
Power Dissipation	Pd	250			mW
Thermal Resistance Junction to Ambient	$R_{θJA}$	500			℃/W
Storage temperature	T_{STG}	-65~+150			℃

ELECTRICAL CHARACTERISTICS (Tamb=25℃   unless   otherwise   specified)

Parameter	Symbol	Test conditions		MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)}$	I_R= 1mA SM5817WS SM5818WS SM5819WS		20 30 40		V
Reverse voltage leakage current	I_R	V_R=20V V_R=30V V_R=40V	SM5817WS SM5818WS SM5819WS		1	mA
Forward voltage	V_F	SM5817WS	I_F=1A		0.45	V
			I_F=3A		0.75	
		SM5818WS	I_F=1A		0.55	V
			I_F=3A		0.875	
		SM5819WS	I_F=1A		0.6	V
			I_F=3A		0.9	
Diode capacitance	C_D	V_R=4V, f=1MHz			120	pF

SOD-323 FL Package Outline & Dimensions

2.30 - 2.70 mm [0.091 - 0.106 in]

1.15 - 1.35 mm [0.045 - 0.053 in]

0.25 - 0.40 mm [0.010 - 0.016 in]

1.60 - 1.80 mm [0.063 - 0.071 in]

0.80 - 1.00 mm [0.031 - 0.039 in]

0.05 - 0.25 mm [0.002 - 0.010 in]

NOTES:
1. The above package outline is similar to JEITA SC-90.
2. Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

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