

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

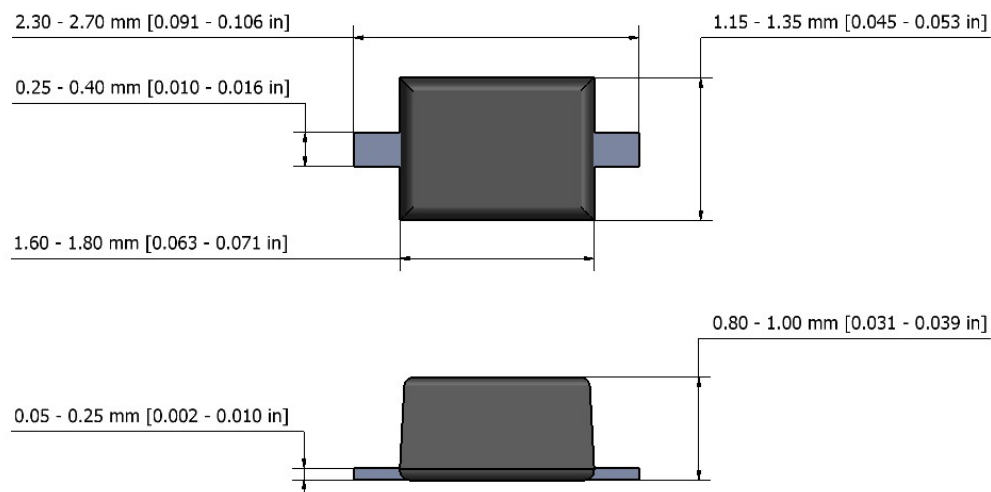
Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25°C

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 @t=8.3ms	I _{FSM}	9			A
Repetitive Peak Forward Current	I _{FRM}	1.5			A
Power Dissipation	P _d	250			mW
Thermal Resistance Junction to Ambient	R _{θJA}	500			°C/W
Storage temperature	T _{STG}	-65~+150			°C

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C 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 SM5817WS V _R =30V SM5818WS V _R =40V 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



NOTES:

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