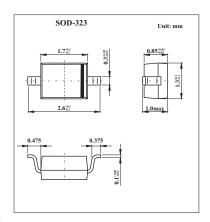
SMD Type Diodes

Schottky Barrier Diodes 1N5817WS-1N5819WS

■ Features

- For use in low voltage, high frequency inverters
- Free wheeling, and polarity protection applications.



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	1N5817WS	1N5818WS	1N5819WS	Unit
Non-Repetitive Peak reverse voltage	VRM	20	30	40	V
Peak repetitive Peak reverse voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	VRWM 20 30		40	V
RMS Reverse Voltage	VR(RMS)	14	21	28	V
Average Rectified Output Current	lo	1		Α	
Peak forward surge current @=8.3ms	IFSM	25			Α
Repetitive Peak Forward Current	IFRM	625			mA
Power Dissipation	Pd	250			mW
Thermal Resistance Junction to Ambient	R ⊕ JA	500			K/W
Storage temperature	Тѕтс		$^{\circ}$ C		

■ Electrical Characteristics Ta = 25°C

Parameter		Symbol	Testconditons	Min	Тур	Max	Unit	
Reverse breakdown voltage	1N5817WS	V(BR)		20			V	
	1N5818WS		IR= 1mA	30				
	1N5819WS			40				
Reverse voltage leakage current	1N5817WS		V _R =20V					
	1N5818WS		VR=30V			1	mA	
	1N5819WS		V _R =40V					
Forward voltage	1N5817WS	VF	IF=1A			0.45	V	
			IF=3A			0.75	ı v	
	1N5818WS		IF=1A			0.55	1 V I	
			IF=3A			0.875		
	1N5819WS		IF=1A			0.6	V	
			IF=3A			0.9	V	
Diode capacitance		CD	VR=4V, f=1MHz			120	pF	

Marking

NO.	1N5817WS	1N5818WS	1N5819WS	
Marking	SJ	SK	SL	

SMD Type Diodes

1N5817WS-1N5819WS

■ Typical Characteristics

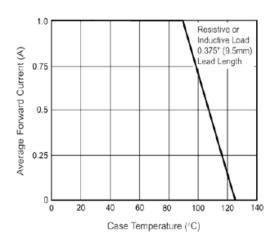


Fig.1 Forward Current Derating Curve

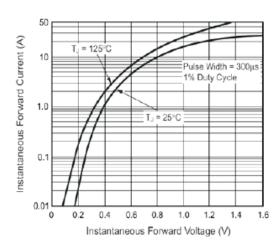


Fig.3 Typical Instantaneous Forward Characteristics

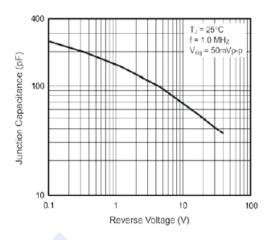


Fig.5 Typical Junction Capacitance

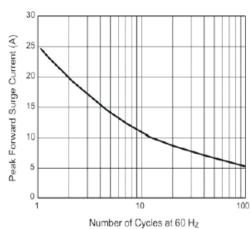


Fig.2 Maximum Non-Repetitive Peak
Forward Surge Current

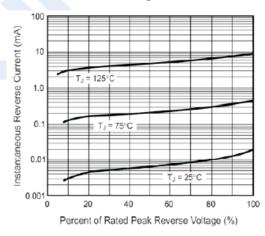


Fig.4 Typical Reverse Characteristics

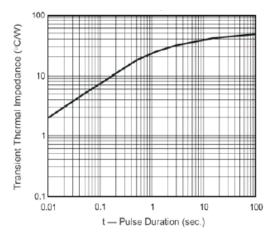


Fig.6 Typical Transient Thermal Impedance