

# **B5817W THRU B5819W**

## **SCHOTTKY DIODE**

# SOD-123 1.80(.071) 1.40(.055) 2.84(0.112) 2.54(0.100) 3.96(0.152) 2.7(0.106) 2.7(0.106) 2.7(0.108) 3.7(0.146) 2.7(0.106) 3.7(0.146) 3.7(0.146) 3.7(0.146) 4.15(.005)

Dimensions in millimeters and (inches)

### **FEATURES**

- ◆ For use in low voltage, high frequency inverters
- ◆ Free wheeling, and polanty protection applications

### **MECHANICAL DATA**

Case: Molded plastic body

Terminals: Plated leads solderable per MIL-STD-750,

Method 2026

**Polarity**: Polarity symbols marked on case **Marking**: B5817W:SJ, B5818W:SK, B5819W:SL

Maximum ratings and electrical characteristics, Single diode @TA=25°C

PARAMETER	SYMBOLS	B5817W	B5818W	B5819W	UNITS	
Peak repetitive peak reverse voltage	Vrrm					
Working peak reverse voltage	VRWM	20	30	40	V	
DC Blocking voltage	VR					
RMS Reverse voltage	VR(RMS)	14	21	28	V	
Average rectified output current	lo		А			
Peak forward surge current @=8.3ms	IFSM	25				
Repetitive peak forward current	IFRM	625				
Power dissipation	Pd	250				
Thermal resistance junction to ambient	Roja	500				
Storage temperature	Тѕтс	-65 to +150				
Non-Repetitive peak reverse voltage	V <sub>RM</sub>	20	30	40	V	

Electrical ratings @TA=25°C

PARAMETER	SYMBOLS	Min.	Max.	Unit	Test conditions	
Reverse breakdown voltage	V <sub>(BR)</sub>	20 30 40		V V V	I <sub>R</sub> =1mA	B5817W B5818W B5819W
Reverse voltage leakage current	lR		1	mA	V <sub>R</sub> =20V V <sub>R</sub> =30V	B5817W B5818W
Forward voltage			0.45 0.75	v v	V <sub>R</sub> =40V I <sub>F</sub> =1A I <sub>F</sub> =3A	B5819W B5817W
	VF		0.55 0.875			B5818W
			0.6 0.9			B5819W
Diode capacitance	С		120	pF	V <sub>R</sub> =4V,f=1.0MHz	

### **RATINGS AND CHARACTERISTIC CURVES B5817W THRU B5819W**

