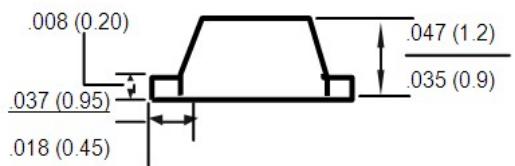
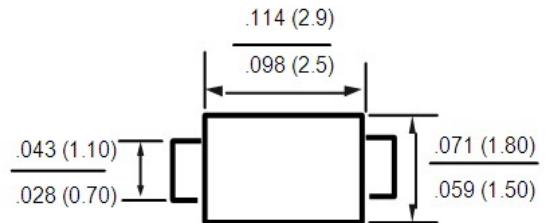


B5817W-B5819W

特 性(FEATURES):

- ◆ Extremely low V_F .
- ◆ Low stored charge, majority carrier conduction.
- ◆ Low power loss/high efficient
- ◆ For Use In Low Voltage, High Frequency Inverters.
- ◆ Free Wheeling, And Polarity Protection Applications.



MAXIMUM RATING @ $T_a=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	B5817W	B5818W	B5819W	Unit
Non-Repetitive Peak reverse voltage	V_{RSM}	24	36	48	V
Peak Repetitive Peak Reverse Voltage	V_{RRM}				
Working Peak Reverse Voltage	V_{RWM}	20	30	40	V
DC Reverse Voltage	V_R				
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}		25		A
Power Dissipation	P_d		250		mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$		80		$^\circ\text{C}/\text{W}$
Storage Temperature	T_j, T_{stg}		-65 to +125		$^\circ\text{C}$

B5817W-B5819W

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test Conditions	MIN	MAX	Unit
Reverse breakdown voltage	V _(BR)	I _r =1mA B5817W B5818W B5819W	20 30 40		V
Reverse voltage leakage current	I _R	V _R =20V B5817W V _R =30V B5818W V _R =40V B5819W		1	mA
Forward voltage	V _F	B5817W I _F =1A I _F =3A		0.45 0.75	V
		B5818W I _F =1A I _F =3A		0.55 0.875	
		B5819W I _F =1A I _F =3A		0.6 0.9	
Diode capacitance	C _D	V _R =4V,f=1MHz		120	pF

ORDERING INFORMATION

Type No.	Marking	Package Code
B5817W	SJ	SOD-123
B5818W	SK	SOD-123
B5819W	SL	SOD-123

B5817W-B5819W

TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

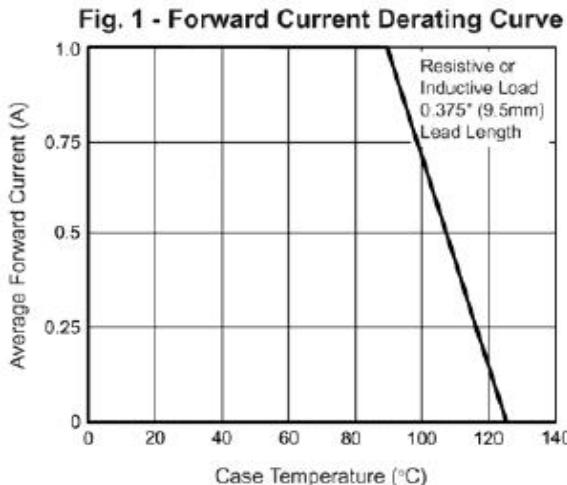


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

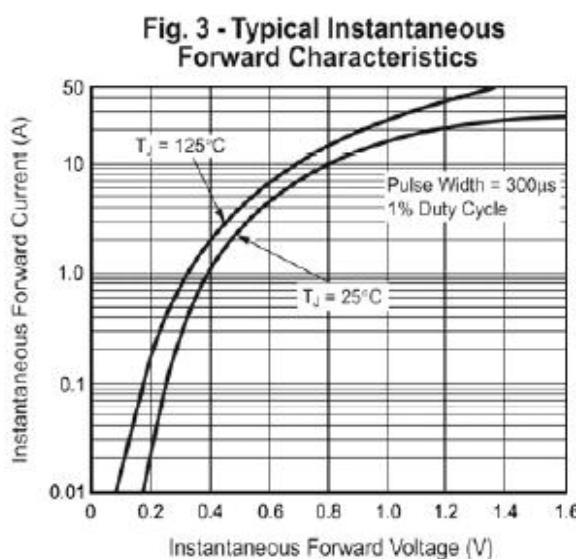
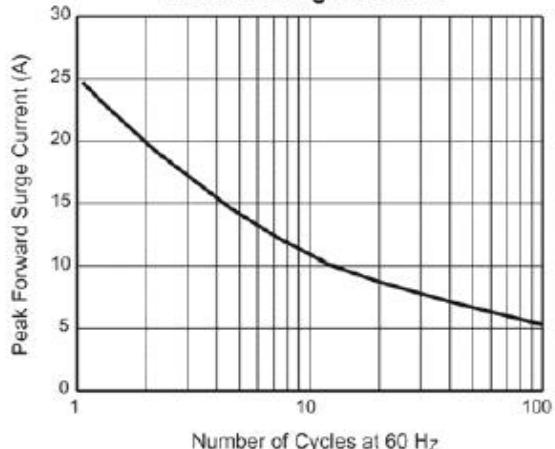


Fig. 4 - Typical Reverse Characteristics

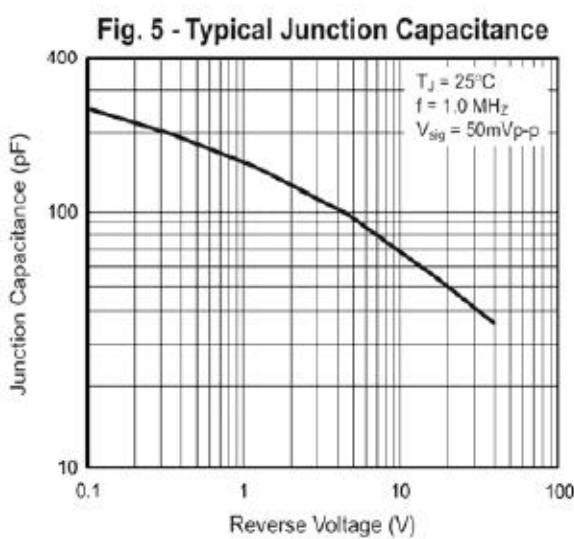
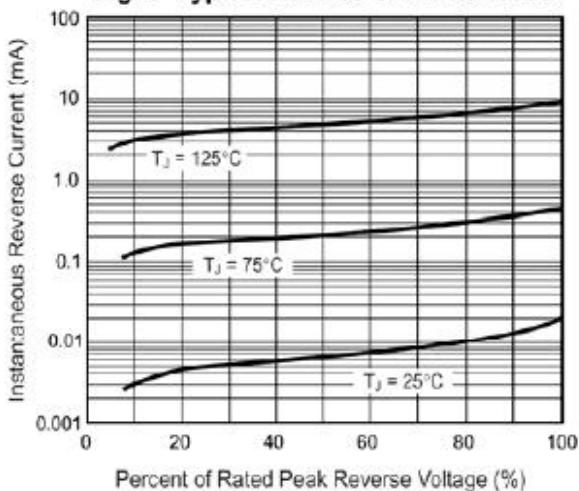


Fig. 6 - Typical Transient Thermal Impedance

