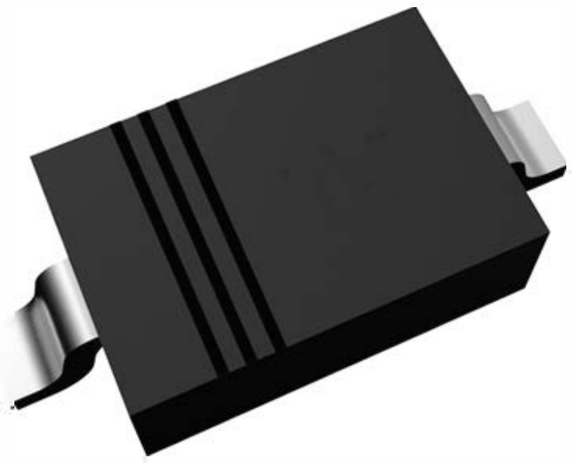
B5817WS--B5819WS

• FEATURES

Extremely low V_F.
Low stored change,majority carrier conduction.

Low power loss/high efficient



SOD-323G

• APPLICATIONS

For Use In Low Voltage, High Frequency Inverters.
Free Wheeling, And Polarity Protection Applications.

• ORDERING INFORMATION

Type No.	Marking	Package Code
B5817WS	SJ.	SOD-323G
B5819WS	.SL.	SOD-323G

• MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Parameter	symbol	B5817WS	B5819WS	Unit
Non-Repetitive Peak reverse voltage	V_{RM}	20	40	V
Peak repetitive Peak reverse voltage Working Peak Reverse voltage DC Reverse Voltage	V_{RRM} V_{RWM} V_R	20	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	28	V
Average Rectified output Current	I_o	1		A
Peak forward surge current@=8.3ms	I_{FSM}	20		A
Power Dissipation	P_d	250		mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500		℃/W
Storage temperature	T_{STG}	-65~+150		℃

- ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Parameter	Symbol	Test Condition		MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)}$	I_R=1mA	B5817WS B5819WS	20 40		V
Reverse voltage leakage current	I_R	V_R=20 V_R=40V	B5817WS B5819WS		1	mA
Forward voltage	V_F	B5817WS	I_F=1A I_F=3A		0.45 0.75	V
		B5819WS	I_F=1A I_F=3A		0.6 0.9	
Diode capacitance	C_D	V_R=4V,f=1MHz			120	pF

- TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Fig. 1 - Forward Current Derating Curve

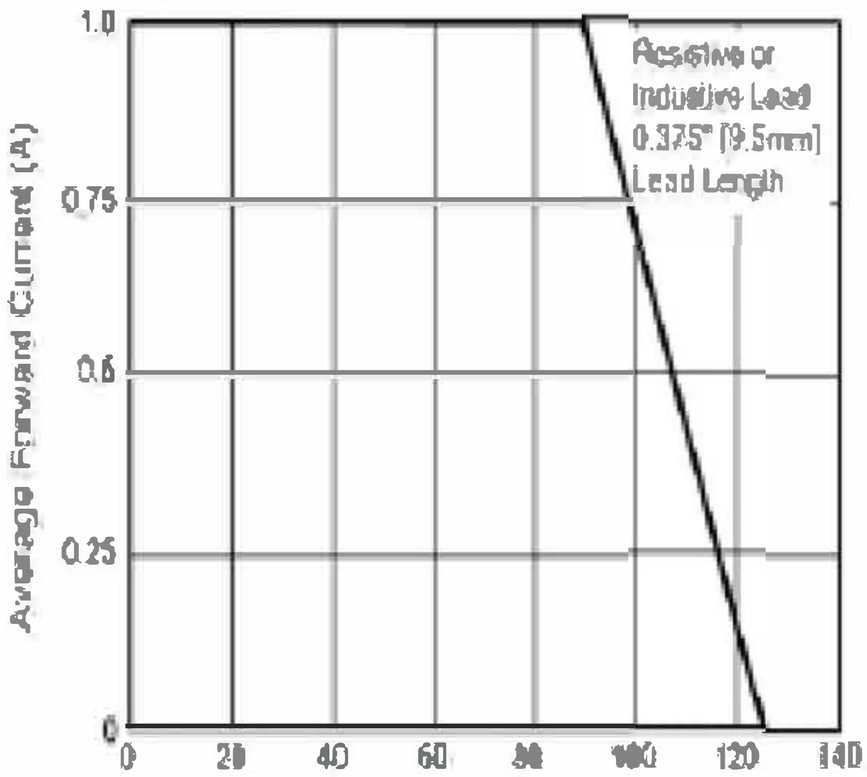


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

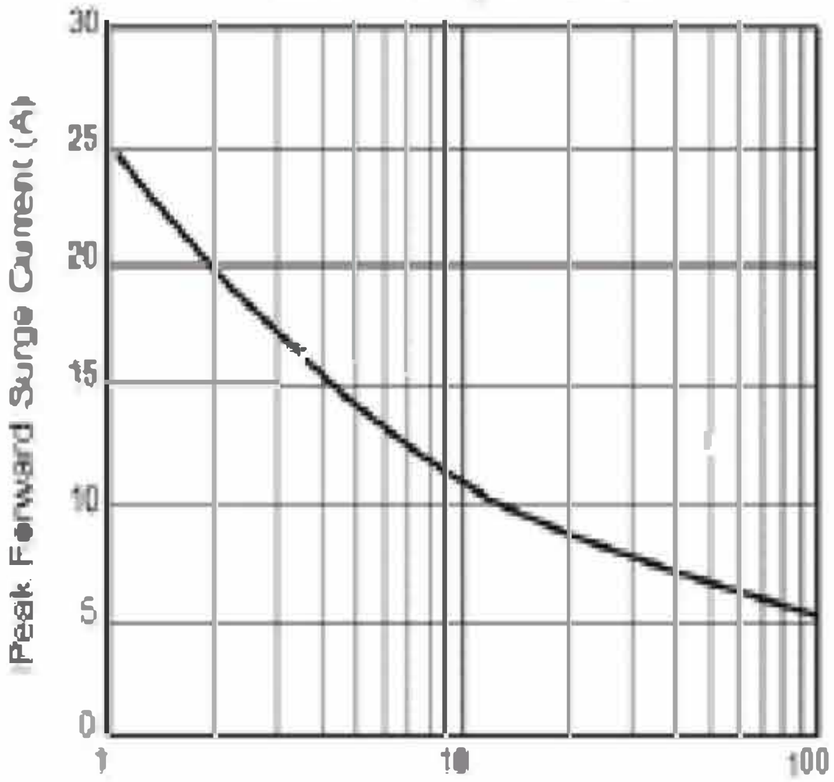


Fig. 3 - Typical Instantaneous Forward Characteristics

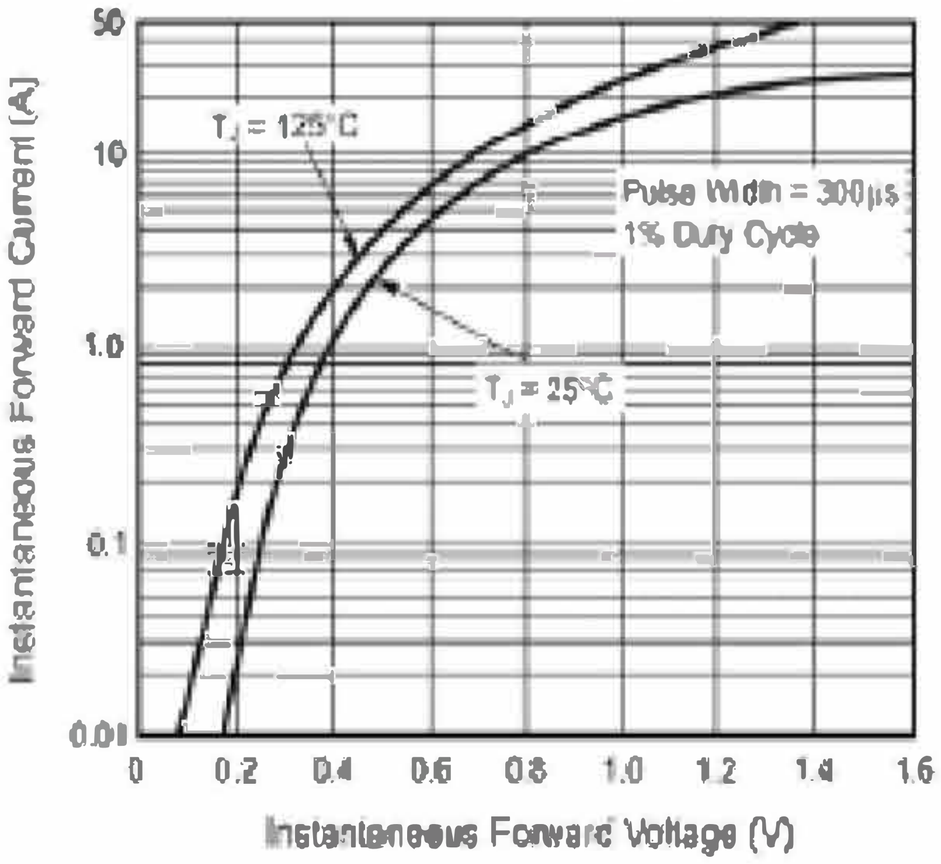


Fig. 4 - Typical Reverse Characteristics

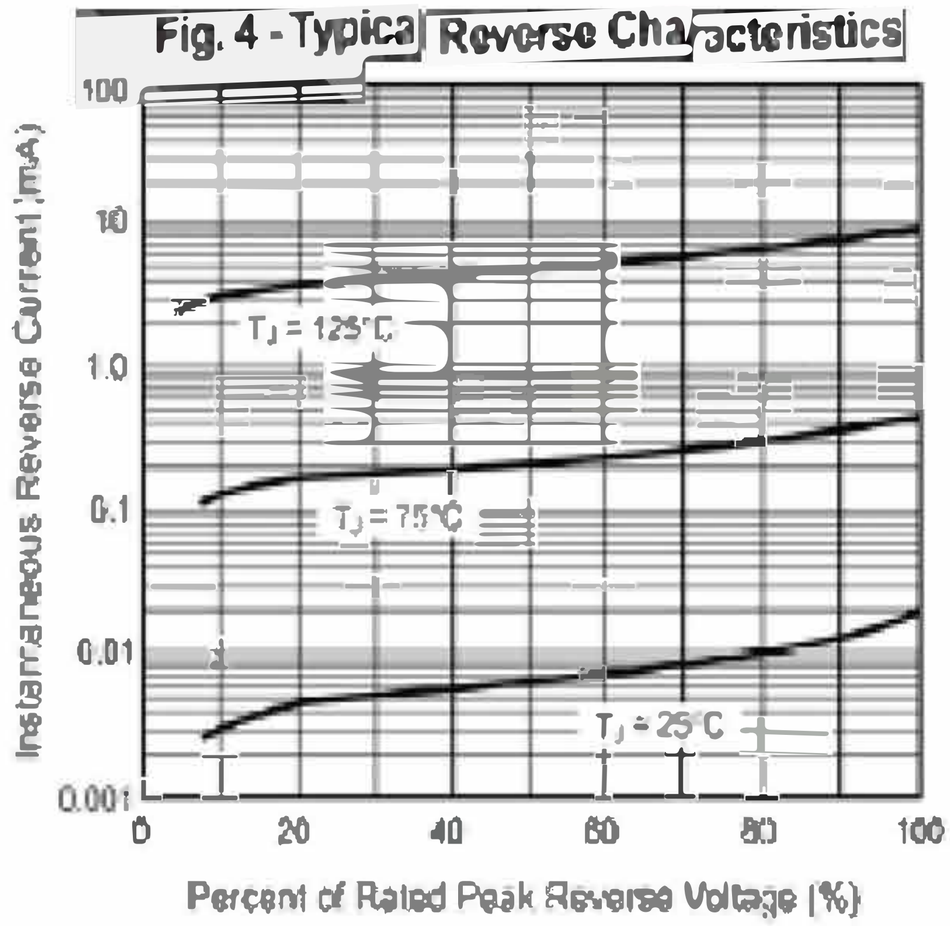


Fig. 5 - Typical Junction Capacitance

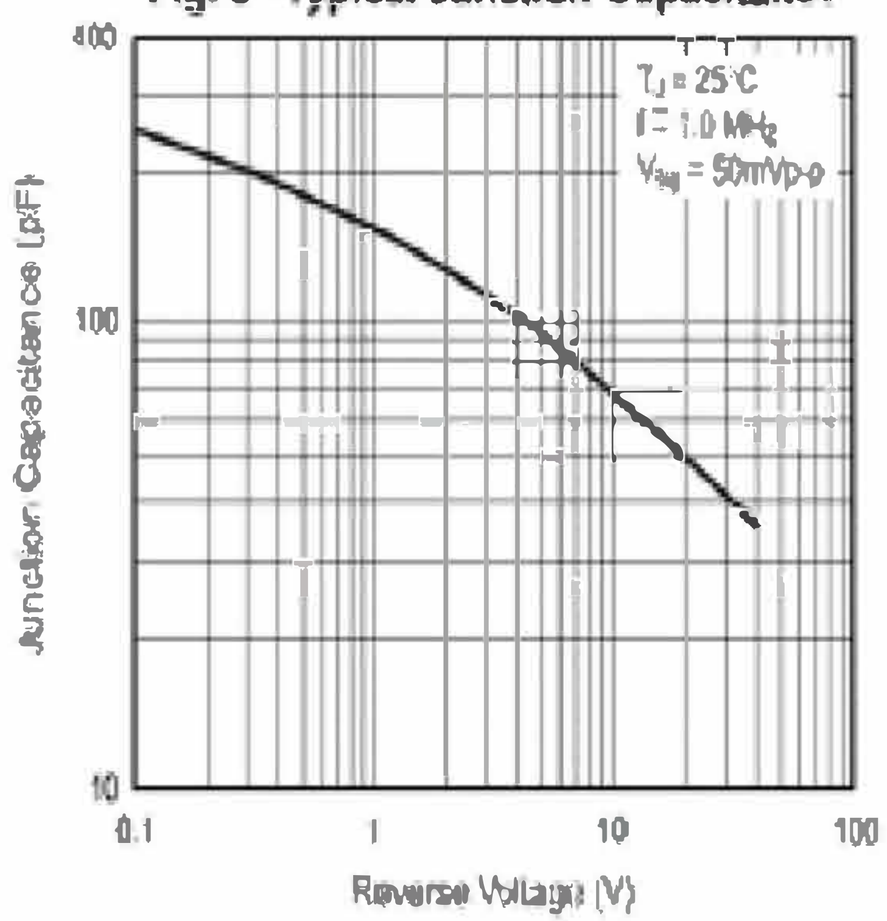
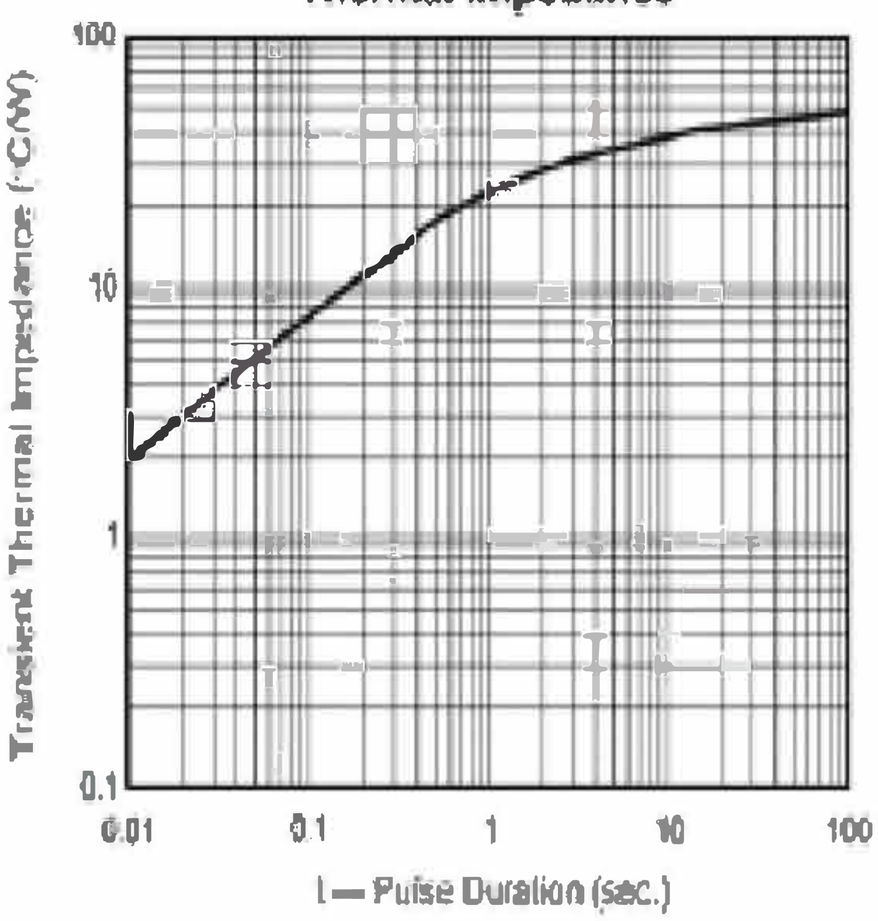
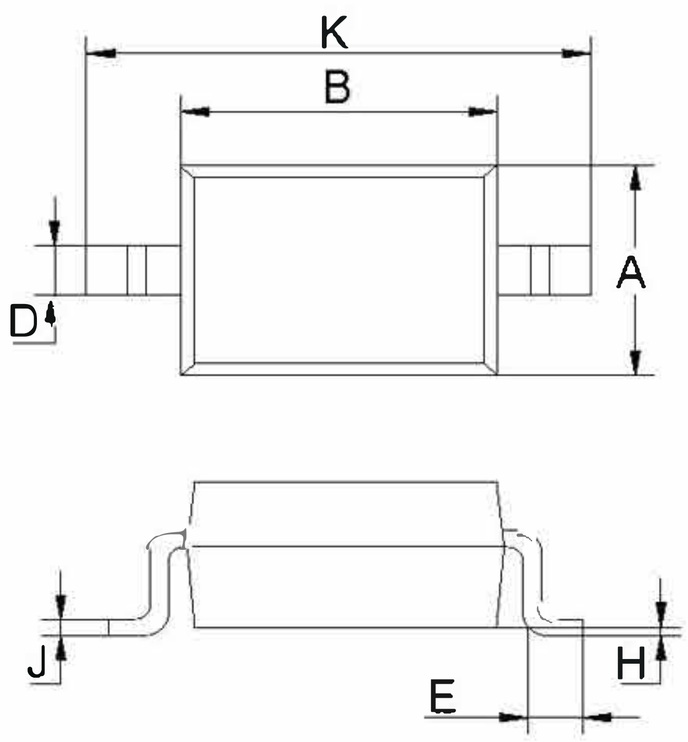


Fig. 6 - Typical Transient Thermal Impedance



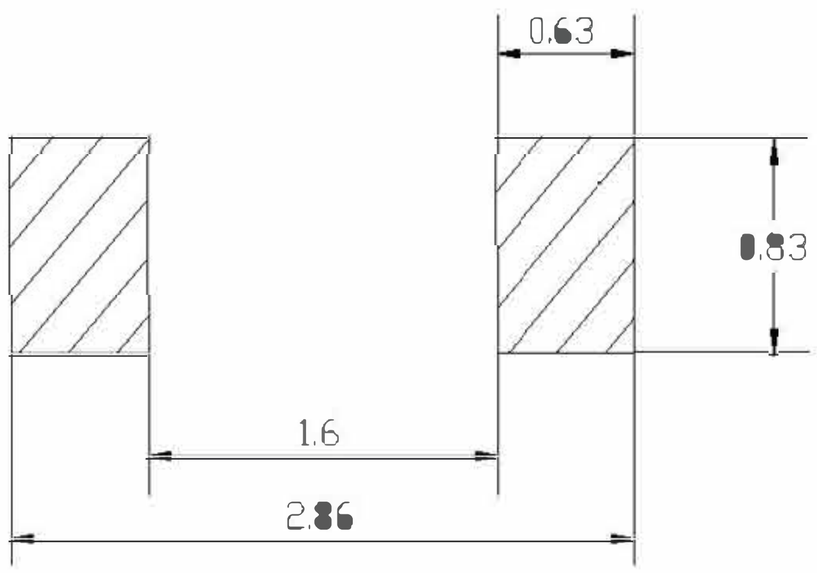
PACKAGE OUTLINE

Plastic surface mounted package



SOD-323G		
Dim	Min	Max
A	1.275	1.325
B	1.675	1.725
C	0.9 Typical	
D	0.25	0.35
E	0.27	0.37
H	0.02	0.1
J	0.1 Typical	
K	2.6	2.7
All Dimensions in mm		

SOLDERING FOOTPRINT



单击下面可查看定价，库存，交付和生命周期等信息

>>SHIKUES(时科)