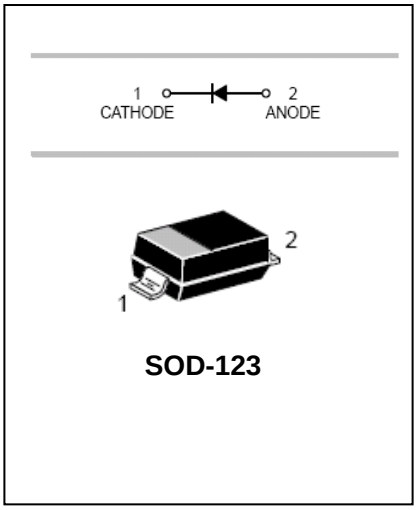
Leiditech

IN5817W-IN5819W

FEATURES

- Extremely low V_F.
- Low stored change,majority carrier conduction.
- Low power loss/high efficient

Lead-free



APPLICATIONS

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

ORDERING INFORMATION

Type No.	Marking	Package Code
IN5817W	SJ	SOD-123
IN5818W	SK	SOD-123
IN5819W	SL	SOD-123

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Parameter	symbol	IN5817W	IN5818W	IN5819W	Unit
Non-Repetitive Peak reverse voltage	V_{RM}	20	30	40	V
Peak repetitive Peak reverse voltage Working Peak Reverse voltage DC Reverse 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@=8.3ms	I_{FSM}	25			A
Repetitive Peak Forward Current	I_{FRM}	625			mA
Power Dissipation	P_d	250			mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500			℃/W
Storage temperature	T_{STG}	-65~+150			℃

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ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Parameter	Symbol	Test Condition	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)}$	I_R=1mA IN5817W IN5818W IN5819W	 20 30 40		V
Reverse voltage leakage current	I_R	V_R=20V IN5817W V_R=30V IN5818W V_R=40V IN5819W		1	mA
Forward voltage	V_F	IN5817W I_F=1A I_F=3A		0.45 0.75	V
		IN5818W I_F=1A I_F=3A		0.55 0.875	
		IN5819W I_F=1A I_F=3A		0.6 0.9	
Diode capacitance	C_D	V_R=4V,f=1MHz		120	pF

PACKAGE INFORMATION

Device	Package	Shipping
IN5817W-IN5819W	SOD-123	3000/Tape&Reel

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TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Fig. 1 - Forward Current Derating Curve

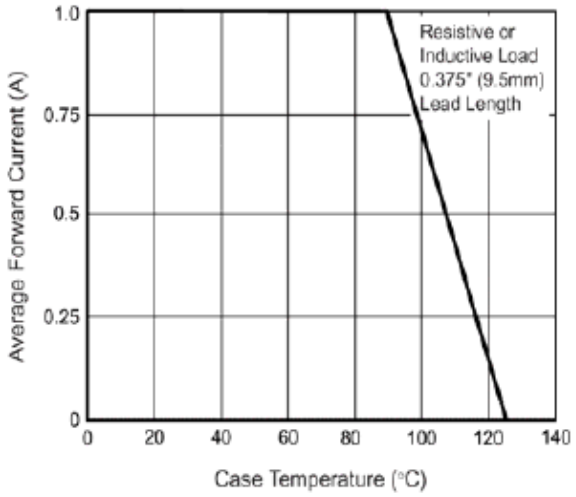


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

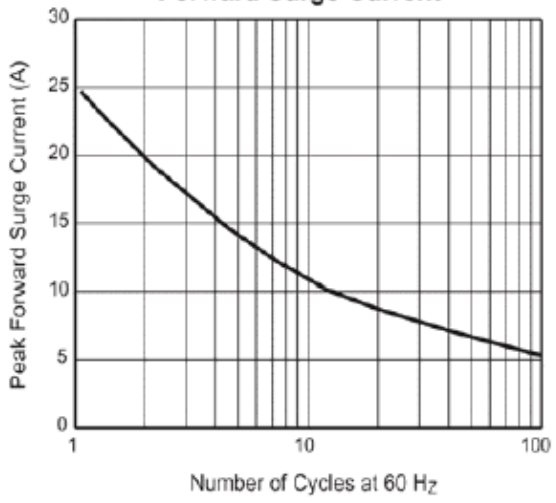


Fig. 3 - Typical Instantaneous Forward Characteristics

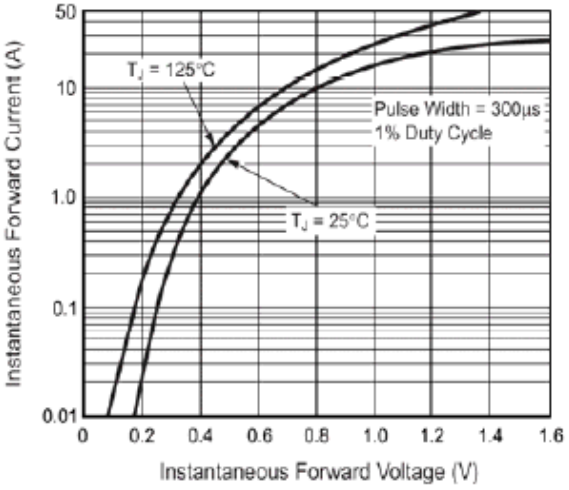


Fig. 4 - Typical Reverse Characteristics

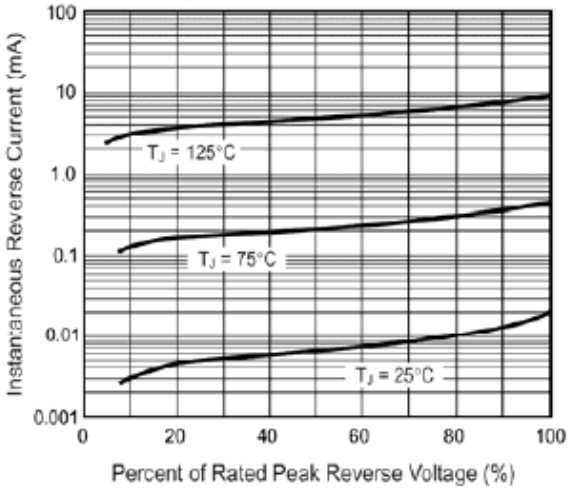


Fig. 5 - Typical Junction Capacitance

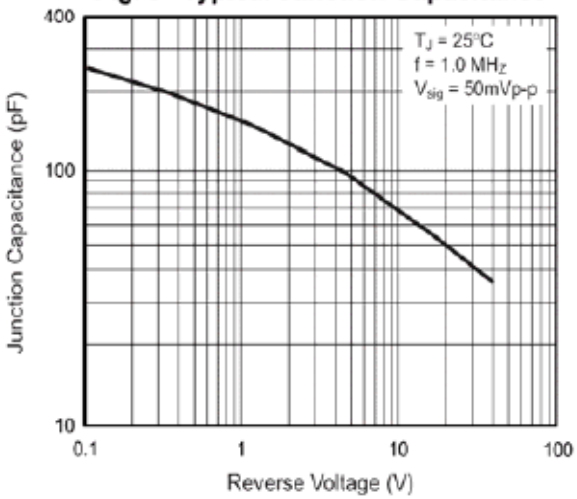
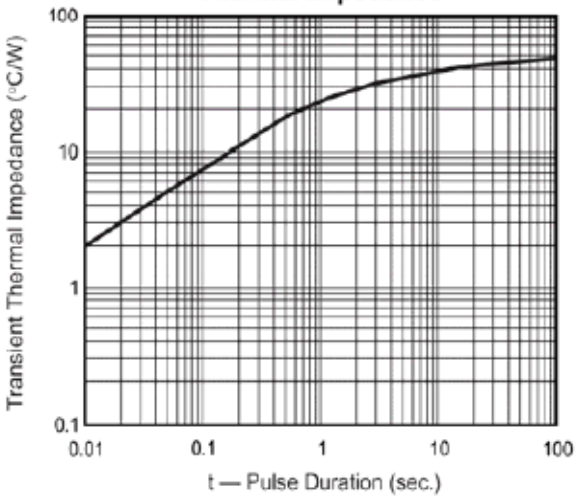
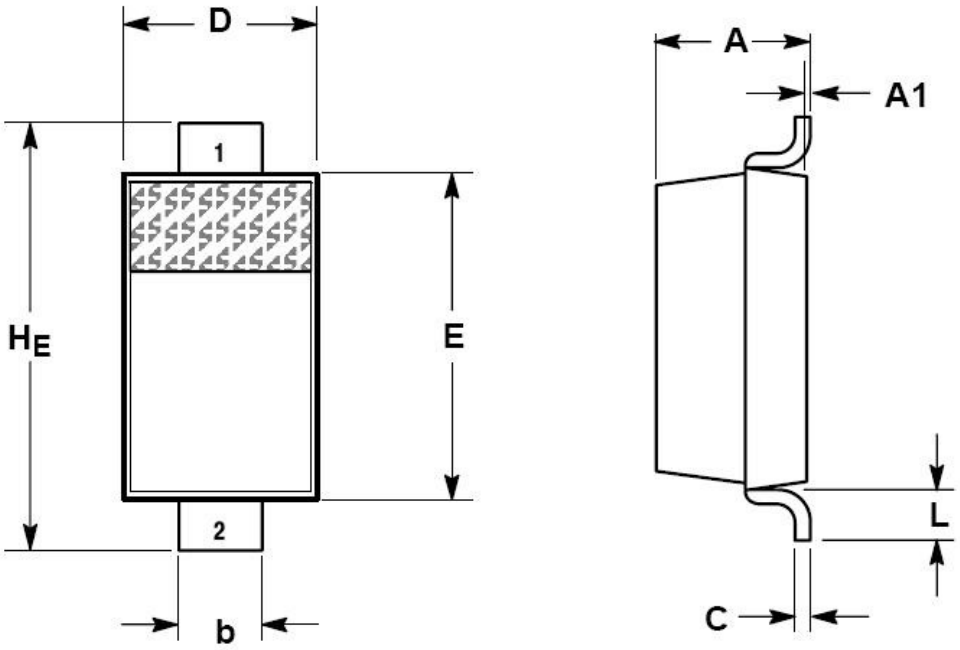


Fig. 6 - Typical Transient Thermal Impedance



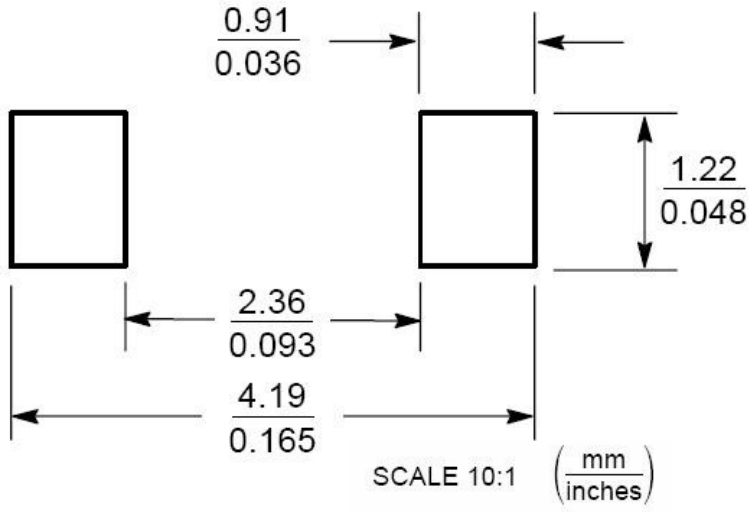
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SOD-123 PACKAGE OUTLINE & DIMENSIONS



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.94	1.17	1.35	0.037	0.046	0.053
A1	0.00	0.05	0.10	0.000	0.002	0.004
b	0.51	0.61	0.71	0.020	0.024	0.028
c	---	---	0.15	---	---	0.006
D	1.40	1.60	1.80	0.055	0.063	0.071
E	2.54	2.69	2.84	0.100	0.106	0.112
H_E	3.56	3.68	3.86	0.140	0.145	0.152
L	0.25	---	---	0.010	---	---

* SOLDERING FOOTPRINT



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