

## Schottky Diodes

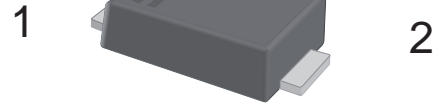
### 1N5817W ~ 1N5819W

#### ■ Features

- Low power loss, high efficiency
- High current capability
- Low forward voltage drop
- High Surge Capability



SOD-123FL



Top View

#### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

#### ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	1N5817W	1N5818W	1N5819W	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	20	30	40	V
RMS Voltage	V <sub>RMS</sub>	14	21	28	
DC Blocking Voltage	V <sub>DC</sub>	20	30	40	
Forward Voltage @ I <sub>F</sub> =1A	V <sub>F</sub>	0.45	0.55	0.6	
Forward Voltage @ I <sub>F</sub> =3.1A		0.75	0.875	0.9	
Average Forward Rectified Current @ T <sub>L</sub> =90°C	I <sub>FAV</sub>	1			A
Non-Repetitive Peak Forward Surge Current @8.3ms	I <sub>FSM</sub>	25			
Reverse Voltage Leakage Current	I <sub>R</sub>	1			mA
		10			
Typical Junction Capacitance	C <sub>J</sub>	110			pF
Junction Temperature	T <sub>J</sub>	125			°C
Storage Temperature range	T <sub>stg</sub>	-55 to 125			

#### ■ Marking

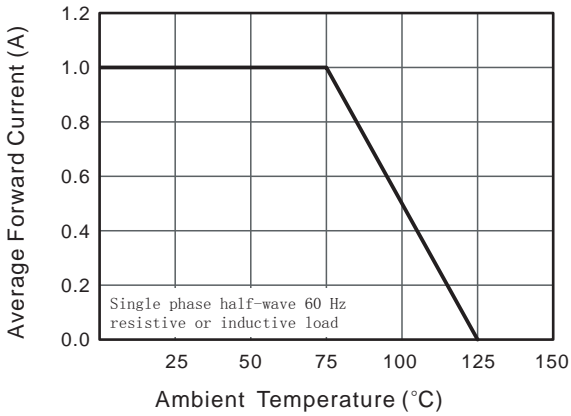
NO.	1N5817W	1N5818W	1N5819W
Marking	SJ	SK	SL

## Schottky Diodes

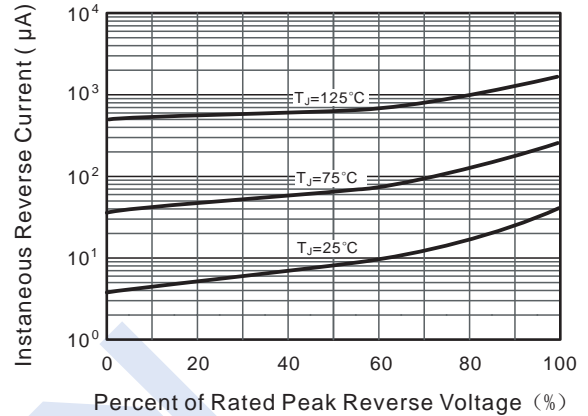
### 1N5817W ~ 1N5819W

■ Typical Characteristics

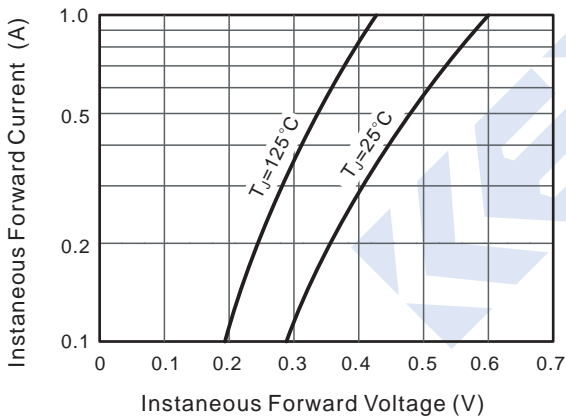
**Fig.1 Forward Current Derating Curve**



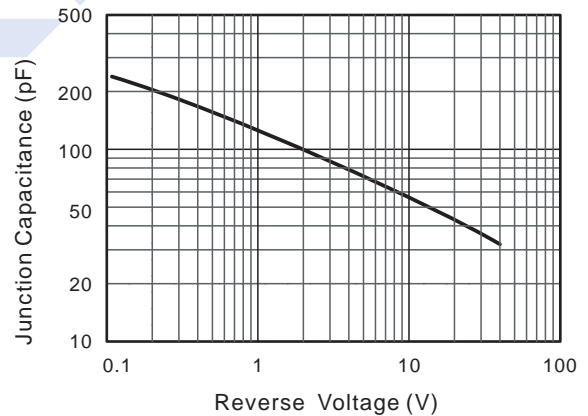
**Fig.2 Typical Reverse Characteristics**



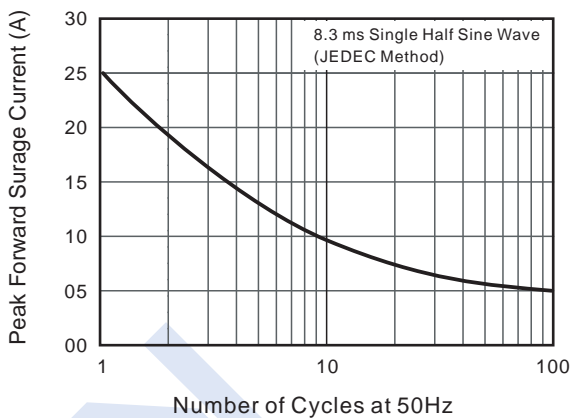
**Fig.3 Typical Forward Characteristic**



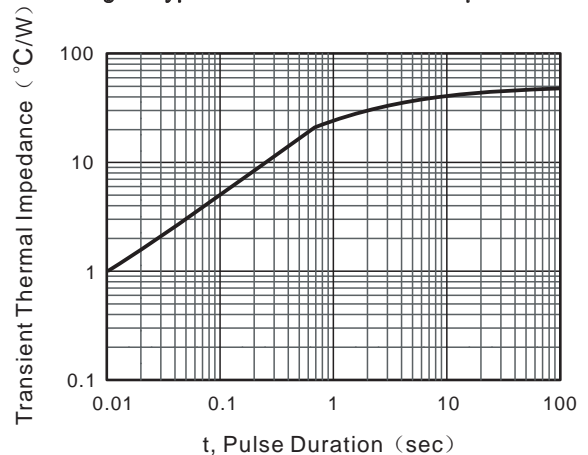
**Fig.4 Typical Junction Capacitance**



**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**



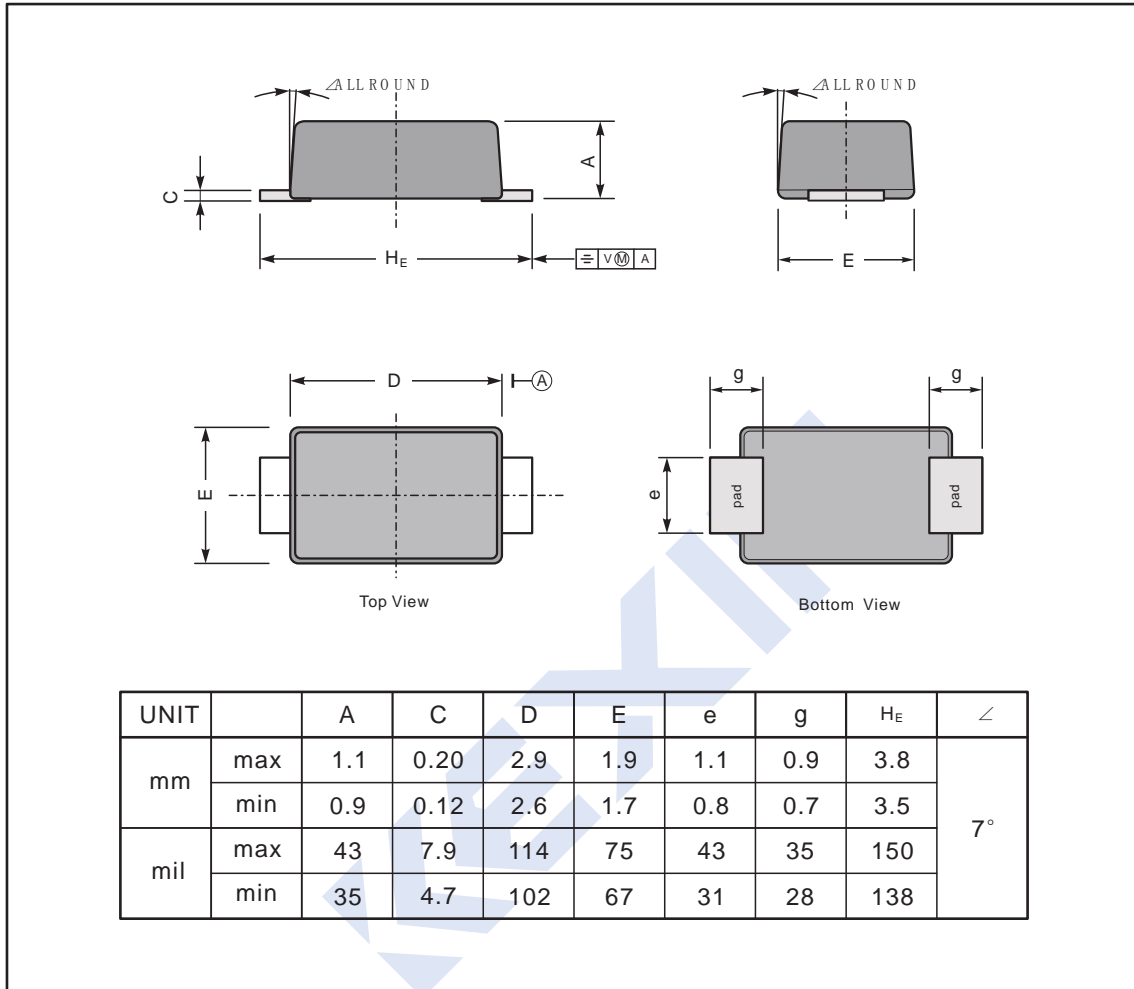
**Fig.6 Typical Transient Thermal Impedance**



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123FL



The recommended mounting pad size

