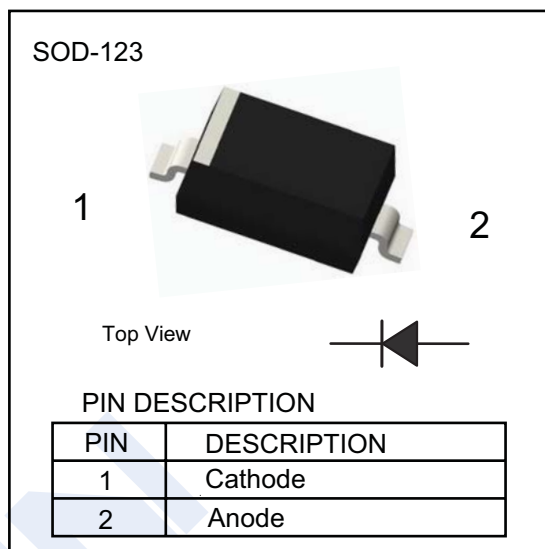


## Schottky Diodes

### 1N5817W ~ 1N5819W

#### ■ Features

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



#### ■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	1N5817W	1N5818W	1N5819W	Unit
Peak Repetitive Reverse Voltage	VRRM	20	30	40	V
RMS Voltage	VRMS	14	21	28	
DC Blocking Voltage	VDC	20	30	40	
Forward Voltage @ $I_F=1\text{A}$	V <sub>F</sub>	0.45	0.55	0.6	
Forward Voltage @ $I_F=3.1\text{A}$		0.75	0.875	0.9	
Average Forward Rectified Current @ $T_L=90^\circ\text{C}$	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>	$T_a = 25^\circ\text{C}$	1		mA
		$T_a = 100^\circ\text{C}$	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

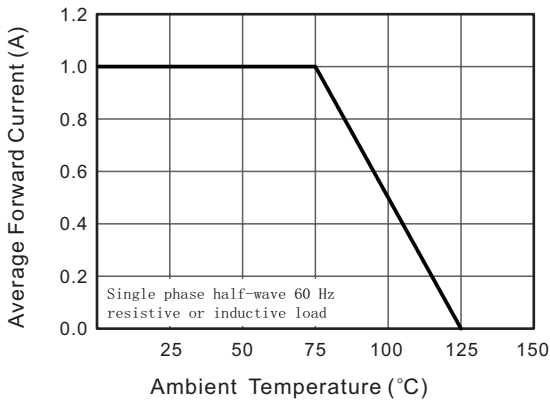
NO.	1N5817W	1N5818W	1N5819W
Marking	12A	13A	14A

## Schottky Diodes

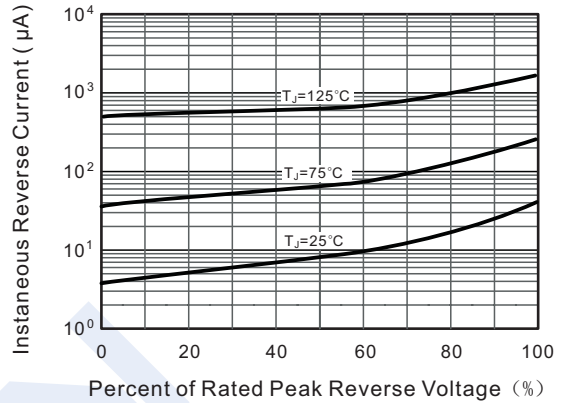
### 1N5817W ~ 1N5819W

■ Typical Characteristics

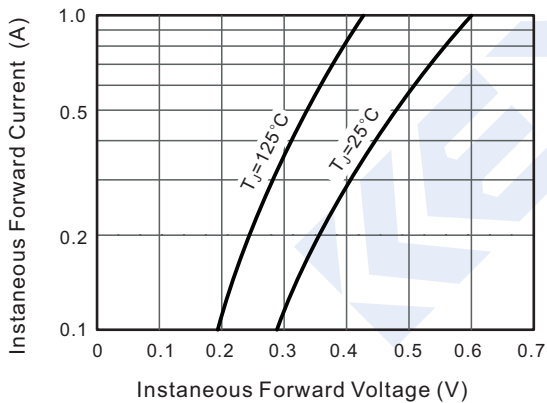
**Fig.1 Forward Current Derating Curve**



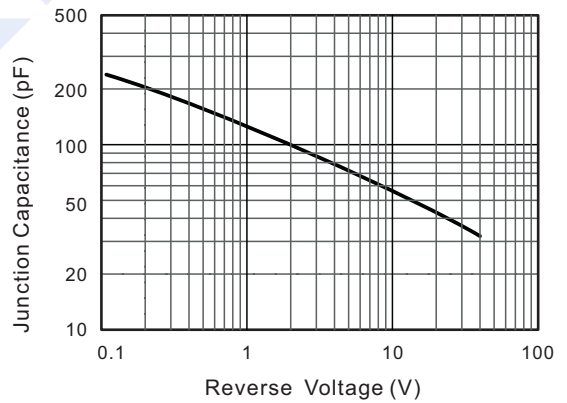
**Fig.2 Typical Reverse Characteristics**



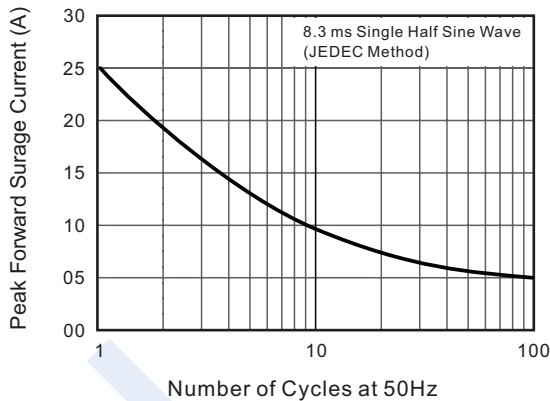
**Fig.3 Typical Forward Characteristic**



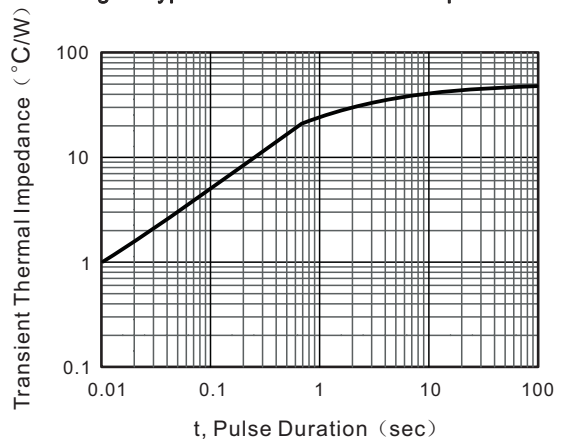
**Fig.4 Typical Junction Capacitance**



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



**Fig.6- Typical Transient Thermal Impedance**



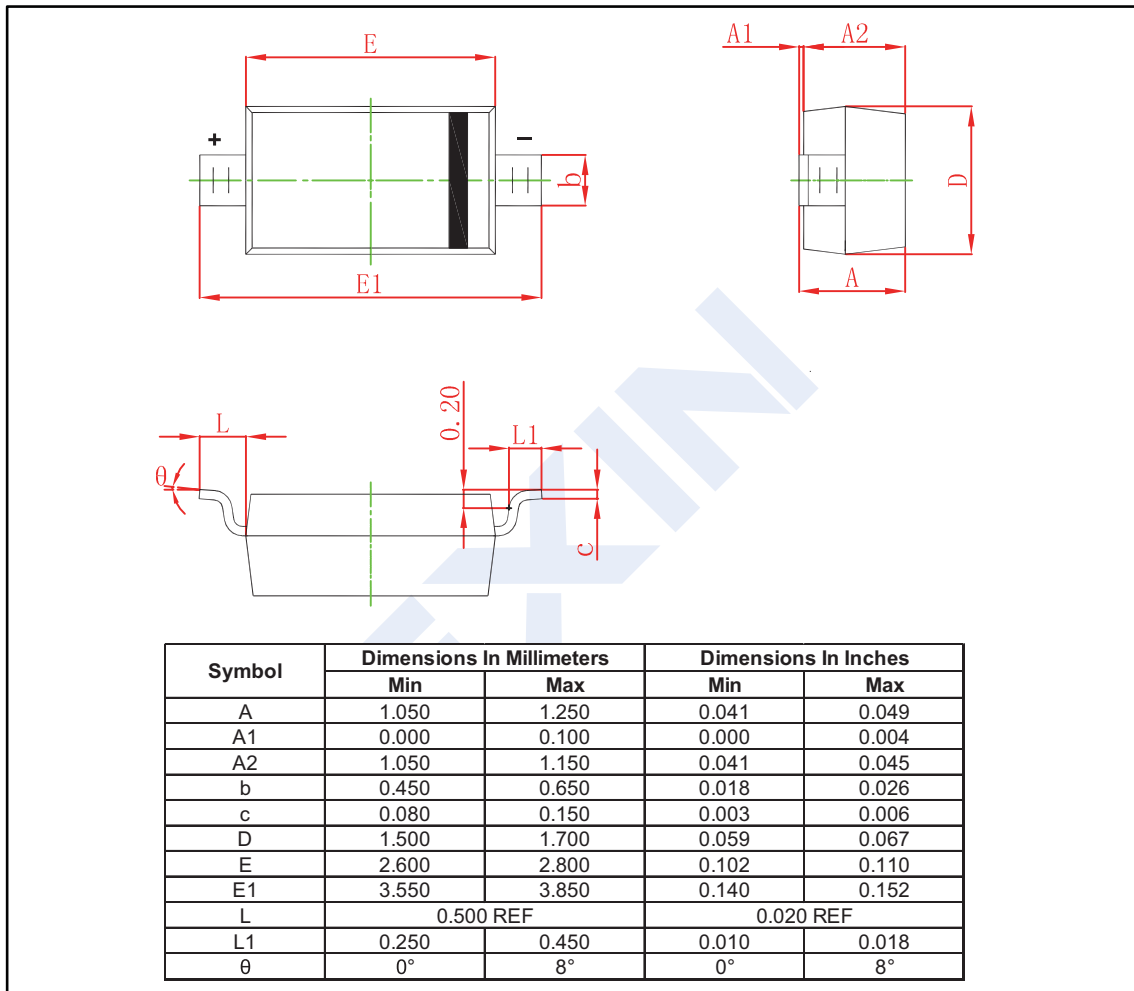
## Schottky Diodes

### 1N5817W ~ 1N5819W

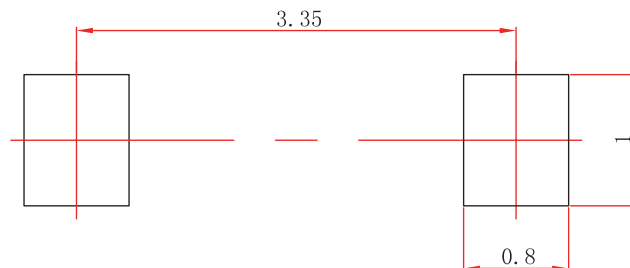
#### ■ Package Outline Dimensions

Plastic surface mounted package; 2 leads

SOD-123



#### ■ The Recommended Mounting Pad Size



#### Note:

1. Controlling dimension in millimeters.
2. General tolerance:  $\pm 0.05\text{mm}$ .
3. The pad layout is for reference purposes only.