

1N5817W~1N5819W

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 20 to 40 Volt **CURRENT** 1.0 Ampere

SOD-123

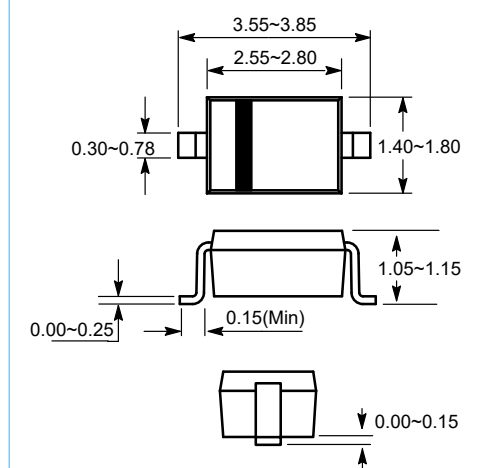
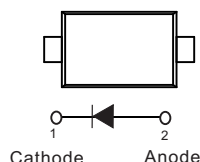
Unit:mm

FEATURES

- Guard Ring Protection
- Low Forward Voltage Drop
- High Surge Current Capability
- Lead free in compliance with EU RoHS

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS($T_A = 25^{\circ}\text{C}$ unless otherwise noted)

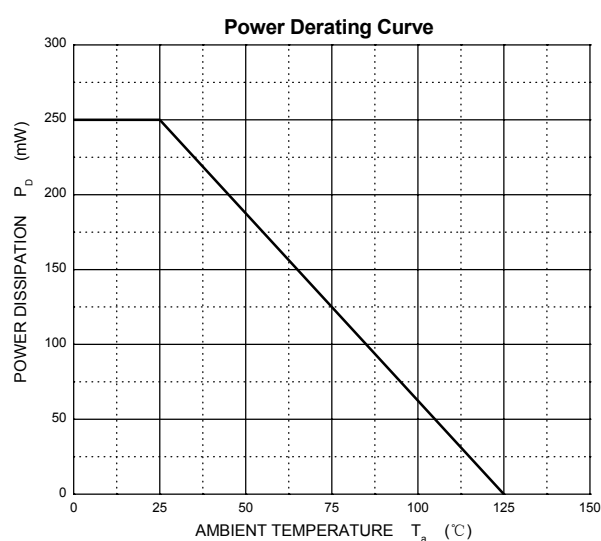
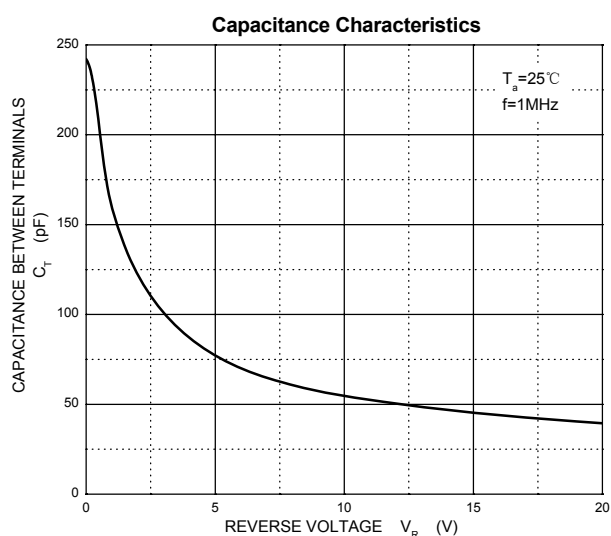
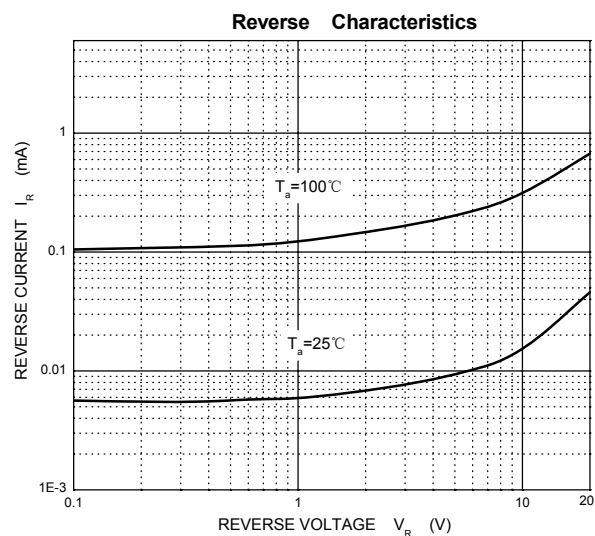
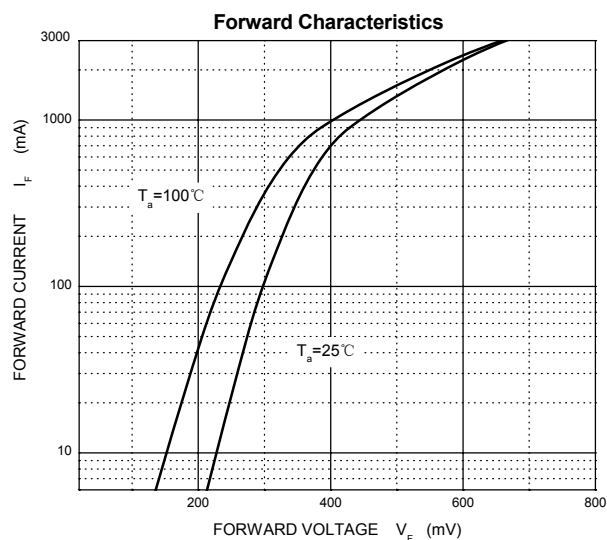
Parameter	Symbol	1N5817W	1N5818W	1N5819W	Unit
Peak Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	V
Working Peak Reverse Voltage	V_{RWM}				
DC Blocking Voltage	V_R				
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	V
Forward Continuous Current	I_{FM}	1.0			mA
Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	10			A
Power Dissipation	P_d	250			mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500			$^{\circ}\text{C/W}$
Junction Temperature	T_j	125			$^{\circ}\text{C}$
Storage Temperature	T_{STG}	$-55\sim+150$			$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS($T_A = 25^{\circ}\text{C}$ unless otherwise noted)

Characteristic	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Leakage	I_R	$(V_R = 20\text{ V})$ $(V_R = 30\text{ V})$ $(V_R = 40\text{ V})$			200 40 40	μA
Forward Voltage	V_F	$(I_F = 1\text{ A})$ $(I_F = 3\text{ A})$			0.45 0.55 0.60 0.75 0.88 0.90	V V
Total Capacitance	C_T	$(V_R = 0\text{ V}, f = 1.0\text{ MHz})$			120	pF

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Typical Characteristics

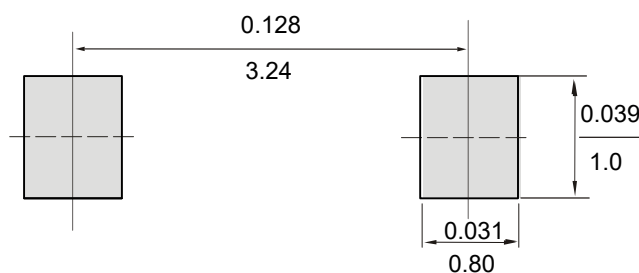


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MOUNTING PAD LAYOUT

SOD-123

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
1N5817W~1N5819W	SOD-123	7 Inch	3000