

1N4148X

SWITCHING DIODE

VOLTAGE	100 Volt	POWER	150 mW
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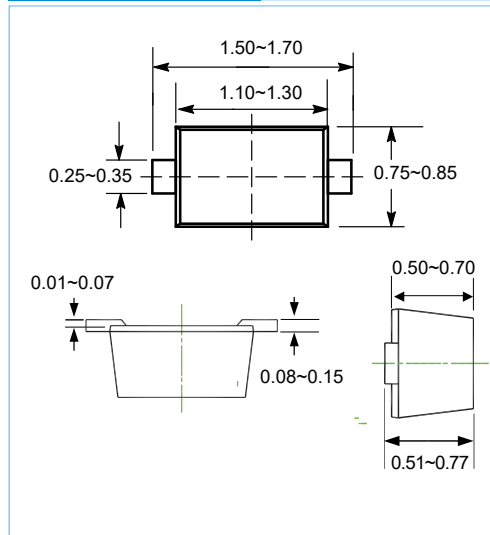
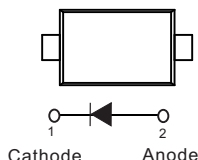
SOD-523 Unit:mm

FEATURES

- Fast Switching Speed
- Low Reverse Current
- For General Purpose Switching Applications
- Lead free in compliance with EU RoHS
- Marking code: T4

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)

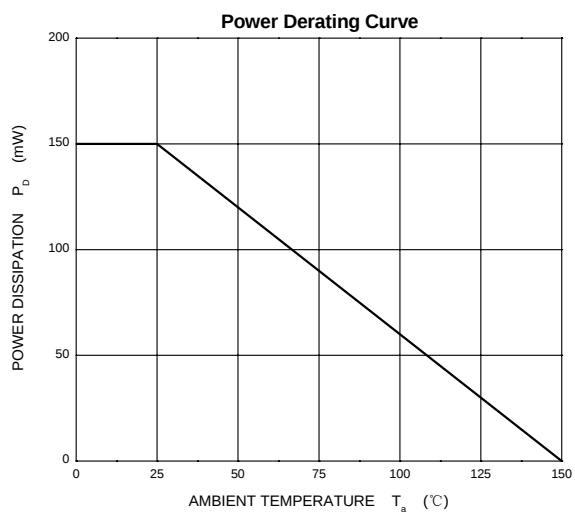
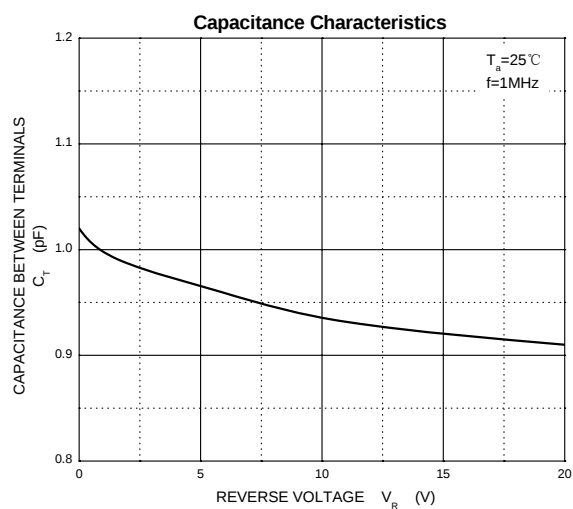
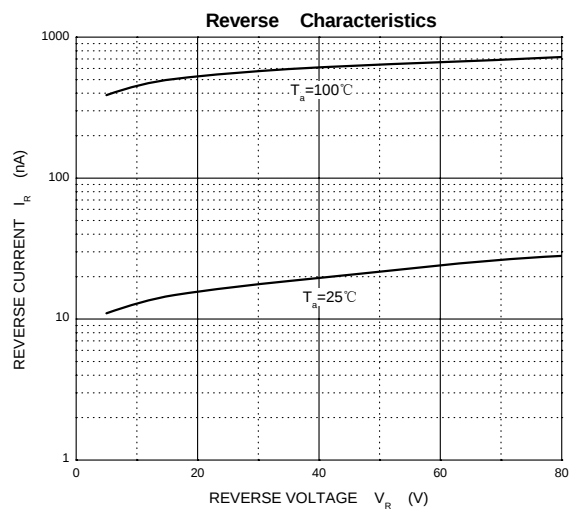
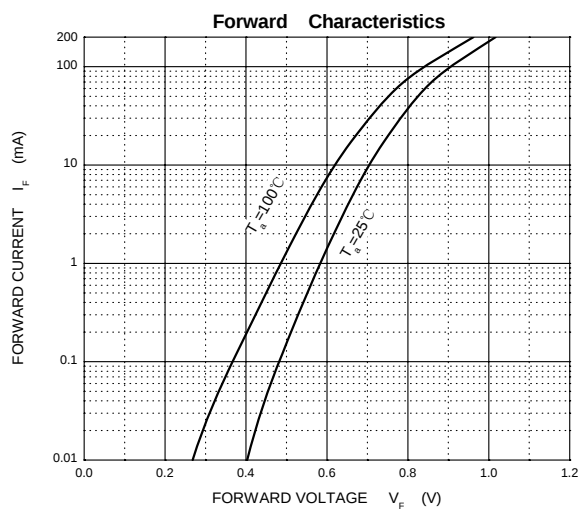
Parameter	Symbol	Value	Units
Peak reverse voltage	V_{RM}	100	V
Reverse voltage	V_R	75	V
Average Rectified Output Current	I_O	0.15	A
Non-repetitive Peak Forward surge current @ $t=8.3\text{ms}$	I_{FSM}	2.0	A
Power dissipation	P_D	150	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	833	$^\circ\text{C/W}$
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 to +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	($V_R = 75\text{ V}$)			1.0	μA
		($V_R = 20\text{ V}$)			25	nA
Forward Voltage	V_F	($I_F = 1.0\text{ mA}$)			0.715	V
		($I_F = 10\text{ mA}$)			0.855	V
		($I_F = 50\text{ mA}$)			1.00	V
		($I_F = 150\text{ mA}$)			1.25	V
Total Capacitance	C_T	($V_R = 0\text{ V}$, $f = 1.0\text{ MHz}$)			2.0	pF
Reverse Recovery Time	t_{rr}	$I_F=10\text{mA}$, $I_R=10\text{mA}$, $I_{rr}=0.1I_R$, $R_L=100\ \Omega$			4.0	ns

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Typical Characteristics

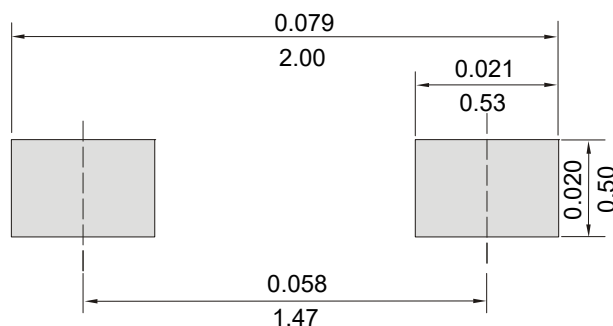


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MOUNTING PAD LAYOUT

SOD-523

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
1N4148X	SOD-523	7 Inch	8000