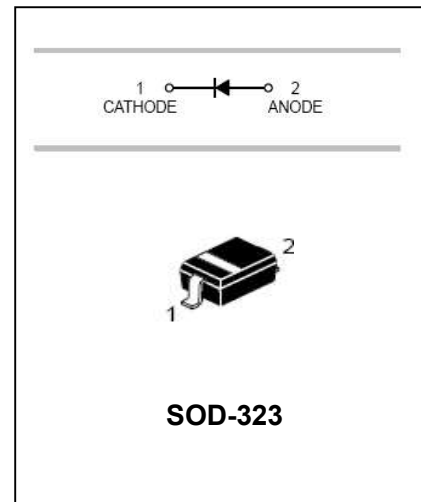


## Silicon Epitaxial Planar Diode

### FEATURES

- Fast Switching Speed:  $t_{rr}=4ns$
- Surface Mount Package Ideally Suited For Automatic Insertion
- For General Purpose Switching Applications
- High Conductance
- Available in Lead Free Version
- ROHS compliant
- MSL: 3



### APPLICATIONS

- Surface mount fast switching diode

### ORDERING INFORMATION

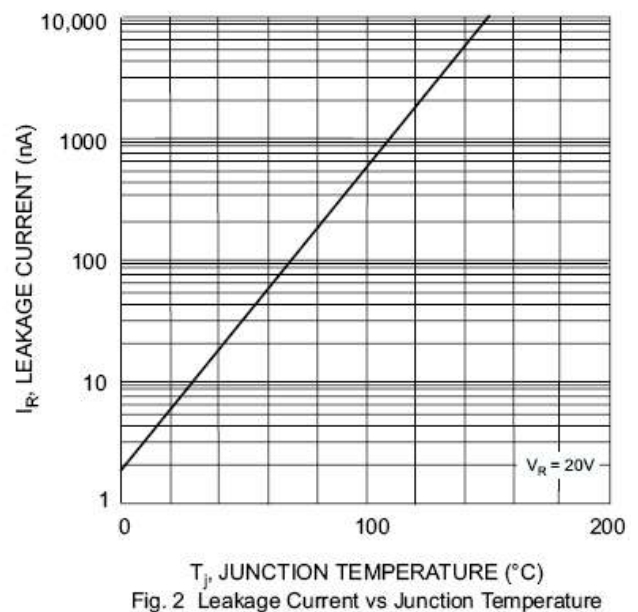
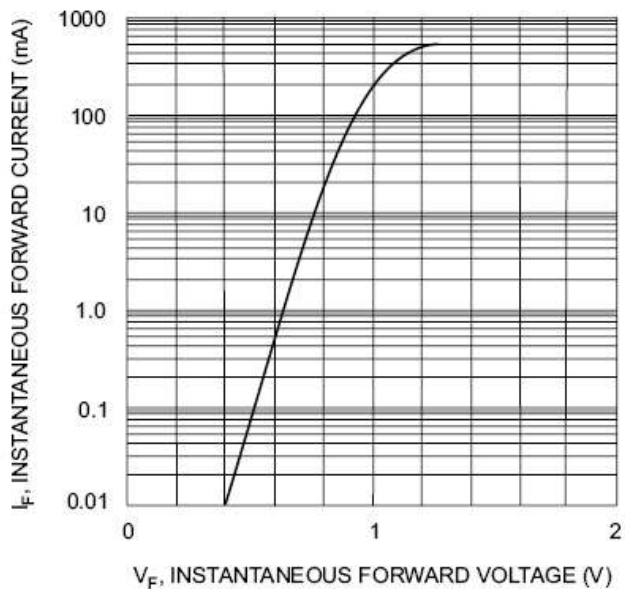
Type No.	Marking	Package Code
1N4148WSX	T4	SOD-323

### MAXIMUM RATING @ $T_a=25^\circ C$ unless otherwise specified

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	100	V
Peak Repetitive Reverse Voltage	$V_{RRM}$	75	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Reverse Voltage	$V_R$		
RMS Reverse Voltage	$V_{R(RMS)}$	53	V
Average Rectified Output Current	$I_o$	150	mA
Non-Repetitive Peak Forward Surge Current @ $t=1.0 \mu s$ @ $t=1.0 s$	$I_{FSM}$	2.0 1.0	A
Power Dissipation	$P_d$	200	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	625	$^\circ C/W$
Operating and Storage Temperature Range	$T_j, T_{STG}$	-65 to +150	$^\circ C$

**Silicon Epitaxial Planar Diode**
**ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**

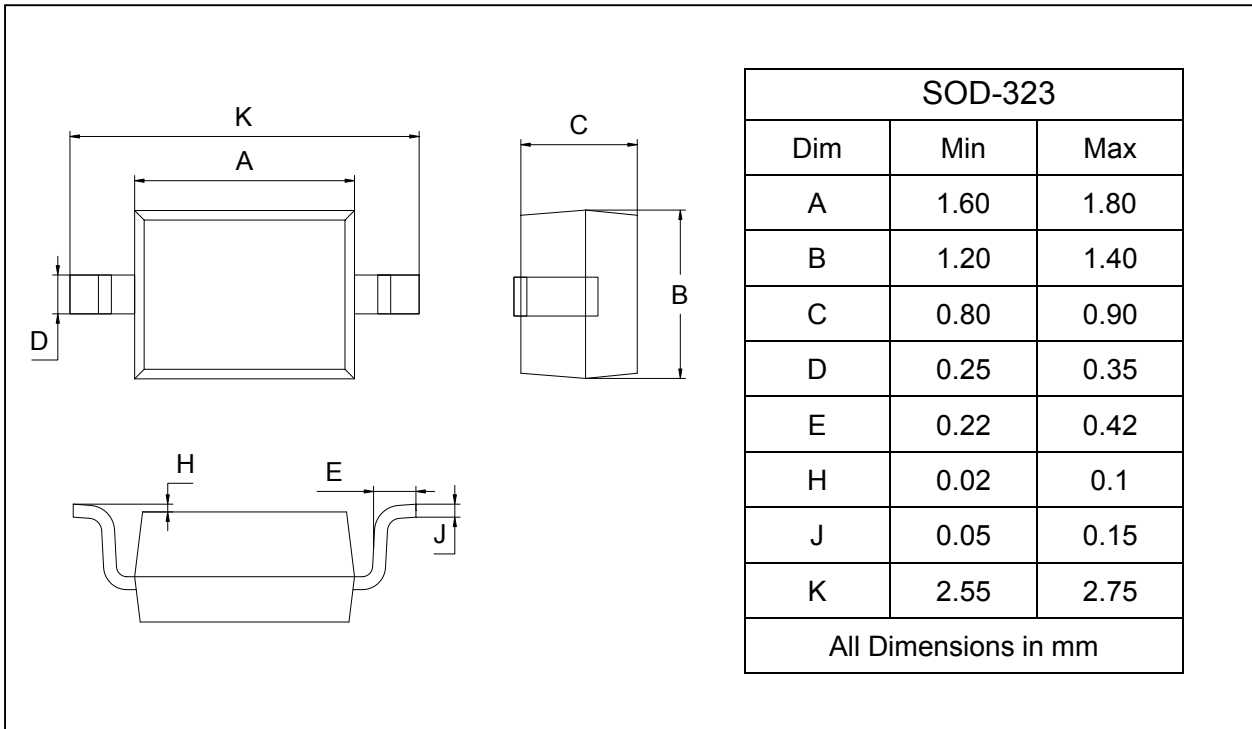
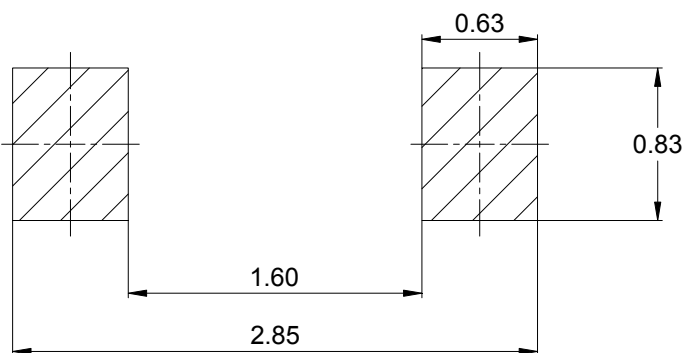
Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	75	-	V	$I_R=1.0\mu A$
Forward Voltage	$V_F$	-	0.715 0.855 1.0 1.25	V	$I_F=1.0mA$ $I_F=10mA$ $I_F=50mA$ $I_F=150mA$
Reverse Current	$I_R$	-	1.0 25	$\mu A$ nA	$V_R=75V$ $V_R=20V$
Junction Capacitance	$C_J$	-	2.0	pF	$V_R=0, f=1.0MHz$
Reverse Recovery Time	$t_{rr}$	-	6.0	ns	$I_F=I_R=10mA,$ $I_{tr}=0.1 \times I_R, R_L=100\Omega$

**TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**


**Silicon Epitaxial Planar Diode**
**PACKAGE OUTLINE**

Plastic surface mounted package

SOD-323


**SOLDERING FOOTPRINT**


Unit : mm

**PACKAGE INFORMATION**

Device	Package	Shipping
1N4148WSX	SOD-323	3000/Tape&Reel