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# **Semiconductor Device Fundamentals**

**What is semiconductor  
Definition from WhatIs.com.  
Semiconductor Wikipedia.  
MOSFET Wikipedia.  
Electronics Basics ROHM  
Semiconductor.  
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Jayant. Semiconductor  
Device Fundamentals Robert  
F Pierret. Fundamentals of On  
Resistance in Load Switches.  
Analog Embedded  
Processing Semiconductor  
Company Texas. Power  
Semiconductor Reliability  
Handbook. A brief review of  
atomic layer deposition from**

**What is semiconductor  
Definition from WhatIs.com  
May 10th, 2018 - A  
semiconductor is a substance  
usually a solid chemical element  
or compound that can conduct  
electricity under some  
conditions but not others  
making it a good medium for the  
control of electrical current'**

**'Semiconductor Wikipedia  
May 8th, 2018 - A  
semiconductor material has  
an electrical conductivity  
value falling between that of a  
conductor ? such as copper  
gold etc ? and an insulator  
such as glass Their  
resistance decreases as their  
temperature increases which  
is behavior opposite to that of  
a metal'**MOSFET Wikipedia  
May 10th, 2018 - The metal  
oxide semiconductor field  
effect transistor MOSFET  
MOS FET or MOS FET is a  
type of field effect transistor  
FET most commonly  
fabricated by the controlled

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**oxidation of silicon'**

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**silicon R wire R lead P D MAX**

**T J MAX T A JA 2 P I RD**

**LOAD ON ' V V R IIN OUT ON**

**LOAD ' VIN VOUT C OUT R**

**OUT ON GND C IN Load**

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Omega Semiconductor www  
aosmd.com 2 Fundamentals of  
Reliability 2 1 Definition of  
Reliability" ***A brief review of***

***atomic layer deposition from***  
*May 4th, 2018 - Introduction*

*Atomic layer deposition ALD is  
a technique capable of  
depositing a variety of thin film  
materials from the vapor phase  
ALD has shown great promise  
in emerging semiconductor and  
energy conversion technologies'*

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