

Chapter 48

Electronic Fundamentals

Find the words in the grid. Words can go across, down and in the two forward diagonals.

Y Y K L T T P T X S D F W J C G R W T T T K N H T K F K J S L T Y
T C B R R T N R P J R N R N V R K J N K T Z R M T M M M J U Z X Z
P X C M X T Z M J O N L N T E F E E P D A R L I N G T O N P A I R
T P R L E T A L T T R Z Y D X D R V M K D L R N Z T L H S P X M D
Y L Y F A P T S M L R M O G O R L R E E R Q T M Q H W G P R P M V
P K S N O M I V K T T N L H U M O R X R M J J T P M K J I E H Y R
E O B W B S P B W L A L T C Y T Q Y F P S I K N G W Z Z K S O Y K
M L D Z N I K I Q K V A L Q S H C J K M H E T G M M H V E S T C H
A M P A L V P R N L C O R I M Z Z L P N G O B T F P C Z P I O Q D
T K R N J I R O B G R D S N T B B E Y G C Q T I E D V G R O R Y M
E T Z L P D G L L T D N E T B U R N N B A S E O A R N E O N E I L
R G N E R T L H N A A I K S N R M N H E H N T P N S N R T D S N S
I M T S P T R O T R R Q O R P N K S L M R K L K T S G M E I I T E
A R Y D T K C A T E N T H D O I W C H F N D L D B B P A C O S E M
L W P P N K M O N H M N R C E N K R Q I J R I D L T P N T D T G I
H C E V Q W T J R S O I I A X T D I S X T M N O D R T I I E O R C
Q G M Y P O T J X W I L T R N Z H T N R W Y R C D H Y U O R R A O
L F A N H L Z B L N I S E T M S A E N G N N K X R E W M N T N T N
M J T P F K R H F S Y K T T I E I Q R T D R R P T T W M R J T E D
J H E W K K N M Q N B R T O H N F S E M R I J L Y Z Y C E N P D U
X F R F W X K J M L Y Q H D R E G F T L I M O N W Q I O S T C C C
L Y I C R N N R X J F J W M Z R O D F O N S T D G P M L I N L I T
L H A F O R W A R D B I A S X R B R I N R N T D E J P L S M P R O
D M L R T N P N T R A N S I S T O R Y O D Q D O G T U E T L M C R
I F D U A L I N L I N E P I N S N F Z R D Z R G R M R C O W F U S
O L M W Z K M N W R P H O T O D I O D E S E B Q C N I T R R T I X
D M P K J Y B M E G H Z Q R M R P C H M S L K B L M T O R Q Q T D
E M L P C P L T N J U N C T I O N N X L Z P Y R Q T I R M Z C B R
F N W N C R R I N Q R X Y R H O L E S Q R X T K P X E C V T T L R
K C T B R E P G B T H R E S H O L D V O L T A G E C S N F K V C W
K T T C V O R K W H P E A K I N V E R S E V O L T A G E W G N W B
X L G N D P N W B M P L D J L K G F R E C T I F I E R B R I D G E
N N I N H L Z M D C R R B Y Y P E A K R E V E R S E V O L T A G E

<http://jameshalderman.com>

| | | | | |
|--------------------|------------------|----------------------|----------------------|---------------------------|
| Anode | Diode | Hole theory | Peak inverse voltage | SCR |
| Base | Doping | Impurities | Peak reverse voltage | Semiconductors |
| Bipolar transistor | Dual inline pins | Integrated circuit | Photodiodes | Silicon |
| Bum in | Emitter | Inverter | Photons | Spike protection resistor |
| Cathode | ESD | Junction | Photoresistor | Suppression diode |
| CHMSL | FET | Light emitting diode | Phototransistor | Thermistor |
| Clamping diode | Forward bias | MOSFET | PNP transistor | Threshold voltage |
| Collector | Gate | NPN transistor | P type material | Transistor |
| Control current | Germanium | NTC | PWM | Zener diode |
| Darlington pair | Heat sink | N type material | Rectifier bridge | |
| Despiking diode | Holes | Op amps | Reverse bias | |