

Chapter 12

Electronic Fundamentals

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

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P T B S K T P H O T O T R A N S I S T O R J G M G N R M M P W N X
P X L R I M H I N T E G R A T E D C I R C U I T L Q K N H L H M R
T M I B Q L W O S P I K E P R O T E C T I O N R E S I S T O R P B
Y P G H I M I M L M T L G M N P H O T O D I O D E S T W N C P N N
P N H K L P X C F E L R M A Z N Z J D A R L I N G T O N P A I R S
E J T O R D O K O H T R A T T H M K N D T K B R N T M R L K G P U
M L E P T H T L P N B H G N M E R M X M N E P B N J O Y C J Z H P
A B M L M O K J A F P N E T S C W T N I D Z B E R T D R M T Y O P
T T I L Z W N D M R J D C O N I K P S O N X R C S K O W T D Q T R
E I T M Y B J S Z N T T J E R R S T H M L R M I K T L L T V P O E
R M T Z B Z M J M L M R D U J Y A T C F U T S G S Q K L X M T R S
I P I J M B X V J H D O A M N E A G O C L N Q I H K M S C G K E S
A U N T L P J W D C N T N N H C Y G L R A M M T X R R K N H T S I
L R G C K R M R Y A L R P W S T T O H R M R W Z R O X I L T R I O
B I D Q Z J N M J T M A H E F I R I T K E M N M T W P H W L F S N
X T I D H F R Q K W F X M L A T S P O H C M L C Q O V R M F N T D
P I O M E M P V R N E R K P N K N T T N R N U W D K H P C R T O I
L E D X N S R T N D Y R M O I P I X O E J D Q B N M T T N N N R O
D S E V T Z P Q O W X D C R N N P N T R N F O R W A R D B I A S D
I N N T R P Y I X M B A S E R P G R V O K Q G T R G V L G R N C E
O G Z V F N D V K R V K T W H E E D C E V P E D Z L C M N G T O E
D N P N T R A N S I S T O R W V V I I R R F D R Y L N T R E Y L S
E D L Z E Q D E C K N D K N N K M E R O S S C L J L E X R R P L D
Z C T N J T C D M L N G T I R E B J R O D L E N R F S T B M E E Y
P D E L H F L R D I Z F D K S M M T M S V E X V M Q C N U A M C N
T Z M Q G Y R G H T T W T I M V T F L M E H F M O L R M R N A T V
N R K K R L S G L T P T N D O F L C R Y H B W H J L K N N I T O G
C X L W R P C C H M S L E Z P D P C W Z N P I N T N T X I U E R L
B D X Z M C P K M R K F C R L F E H O L E S N A T R V A N M R D T
H Z T A K K B V N X D U A L I N L I N E P I N S S G J P G R I L D
L K P Q Z R B B R E C T I F I E R B R I D G E C N X G Z W E A C X
N O H J F R B V P E A K R E V E R S E V O L T A G E Z Q P Z L G Q
T H R E S H O L D V O L T A G E W D Y X Y L X N V F G G W L Y R N
  
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Anode	Diode	Hole theory	Peak inverse voltage	SCR
Base	Doping	Impurities	Peak reverse voltage	Semiconductors
Bipolar transistor	Dual inline pins	Integrated circuit	Photodiodes	Silicon
Burn 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	