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Bipolar junction transistor short notes answer sheet answer

Q20. Which configuration among CE, CB, CC gives highest input impedance and no voltage gain? Q13. Because of its high input impedance and low output impedance, the common collector circuit finds wide application as a buffer amplifier between a high impedance source and low impedance load. What are the main purposes for which a CC amplifier may be used. The direction indicated the conventional direction of current flow (from emitter-to-base in case of p-n-p transistor and from base-to-emitter in case of n-p-n transistor). However, in the external connecting wires, the current is still due to the flow of electrons. Again, the emitter current is the sum of collector current and base current. $\text{I}_{\text{E}} = \text{I}_{\text{B}} + \text{I}_{\text{C}}$ BJT Biasing A BJT has two pn-junctions viz. Define beta of a transistor. In case the transistor is not biased properly, it would work inefficiently produce distortion in the output signal with the change in transistor parameters or temperature rise, the operating point may shift and the amplifier output will be unstable. Which is always the smallest? The forward bias of the emitter-base junction causes the emitter current to flow and this emitter current entirely flows in the collector circuit. Q10. Why the width of the base region of a transistor is kept very small compared to other regions? Q9. The doping concentration of the collector region is moderate. Working Principle of BJT The emitter-base junction of BJT is forward-biased, whereas the collector-base junction is reverse biased. In which configuration does it have a greater value? Base region of a transistor is kept very small and very lightly doped so as to pass most of the injected charge carriers to the collector. The output voltage, current or power is controlled by the input current in a transistor. As these electrons flow through the p-type base, they tend to combine with the holes. Since the base is lightly doped and very thin, hence, TJB emoc erageipS ?emon ortla'l "A lauQ .otacilppa eneiv ca elanges li odnauq otseuq a onrotne onognevva CI e ECV ni inoizairav e ca elanges id aznessa ni CI e ECV atneserppar ehc cd ocirac id aenil allus otnup nu "A etnecseiul otnup II ?ovitarepo otnup rep acifingis asoc ehC .aznedepmi atla da pool nu a assab aznedepmi id pool nu ad etnerroc alled otnemirefsart etimart erotaciflpma emoc arepo rotsisnart nU .erottelloc a erotiteme ad errocs)A¹/4 ni (aloccip otlom erottelloc etnerroc anu e otrepa erotturretni nu emoc ecsiga oilgat id enoiger ni otarepo TJB II ?enoisnet id reffub atamaihc "A CC enoizarugifnoc al ©AhcreP .n opit id elairetam id elittos otarts onu ad itarapes onos ehc p opit id irottudnoci es eud ad otsopmoc "A rotsisnart-pnp nU PNP rotsisnart .aticsu ni aiccerf allad otacidni emoc erotiteme llad ecse elanoiznevnc etnerroc al ,rotsisnart-npn reP .esab id erottelloc led enoiznuig allad acirac id irottev i erekoumir ad odom ni esab t.r.w otitrevni erpmes "A erottelloc II .3Q .inorttele ilg noc isranibmoc a onodnet ,n opit led esab id enoiger allen onaicorcn is irof itseuq ertneM .otaredised otnemanoiznu led enoizaerc al rep avitacifingis "A itseihcir iziduigerp id enoizaciflpma id itiucric ien eralopop "A EC enoizarugifnoc al ©AhcreP .OBCI id ednarg "A OBCI ad otatoned erottelloc led oilgat id etnerroc aL .itaredom aznatsabba onos ossergni id aznedepmi id otroppar li e itavele otsottuip onos aznetop id ingadaug i e enoisnet al ,etnerroc aus al ©AhcreP etnemlapicnirp atazzilitu eneiv EC enoizarugifnoc aL .)EC enoizarugifnoc allen OECI e BC enoizarugifnoc allen OBCI(erottelloc led asrevni enoizarutas id etnerroc al o asrevni enoisrepsid id etnerroc al l A atseuq ittafnI .) (esab id etnerroc al eriutitsoc rep irof i noc onanibmoc is)%5 led onem(inorttele id oremun oloccip nu be used as an amplifier. The arrowhead is always marked on the emitter. Generally no arrowhead is marked for collector since its reverse loss current is always opposite to the direction of the emitter current. Why silicon transistor is smaller erotiteme'l ©AhcreP .ihcub ied otnemivom la atuvod "A PNP rotsisnart led onretni'lla enoizudnac elautta'l ehc eraton "A up iS .12Q .esab alla aznaroggam a otibeda id irottev erinrof ad odom ni esaB T.R.W id itnava ni erpmes "A erotiteme'L .erid a elav ilanimret eud I .erottelloc led otuicrc len errocs erotiteme id etnerroc aretni'l ,odom otseuq nI .)\$ }c{ _i{ \$(erottelloc led etnerroc al eriutitsoc rep erottelloc led enoiger al ignuiggars esab al asrevartta)%59 led "A ip(etnatser II ?azzednarg ni eniciv etnemavitaler onos itnerroc eud ilauQ .enoizarutas id enoiger allen arepo rotsisnart li ehc ecid is ,itnava ni etrotsid onos inoiznuig el ebmartne odnauQ .avitta enoiger allen arepo ehc ecid is ,enoisrotsid id enoizidnac atseuq ni otitseg "A rotsisnart li eS ?ednarg "A ip al erpmes "A rotsisnart itnerroc elled elauQ .etnerroc otallortnac ovitisopsid amaihc is idniuQ .7Q .p opit id erottudnoci es id otarts elittos nu ad itarapes onos ehc N opit id erottudnoci es a ilairetam eud ad otsopmoc "A rotsisnart-pnp narotsisnart npn.stjb id ipit itseuq ibmartne id oroval id oipicnirp li oilgatted ni omeretucsld ,olocitra otseuQ nirotsisnart npnA STJB id ipit eud onos erehttjb id ipiT .icinorttele itiucric ien odilos otats a erotturretni emoc otas eresse ehcna "A non CI erottelloc led etnerroc al ,orez "A)EC enoizarugifnoc id osac ni BI e BC enoizarugifnoc id osac ni "A ic tupni id etnerroc al odnauQ .ednarg "A EI erotiteme id etnerroc aL .erottelloc la erotiteme llad itatteini acirac id irotatrop led etrap roiggam al assap idnuiq ,elittos otlom e atagord etnemreggel "A esab aL ?rotsisnart a enoizarepo'l onazneulfni emoc e "rotcaF tropsnarT esaB" e "etneiciffe odom ni erotiteme enoizeinl" onos asoC oinamreg id opit id osac ni elleuq a ottepsir atavele avitarepo arutarepmets id inoizairav id asuac a OBCI'llen inoiznuig el oclipp ,OBCI tnerruC EC EC enoizarugifnoc id osac nI ?oinamreg id opit led itasu osseps "A ip onos oicilis opit id rotsisnart i ©AhcreP .6Q ?itnava ni otrotsid erpmes It is much more than that in the case of CB configuration. Q12. Is it possible to get a transistor by connecting the diodi to Back-to-back trailer semiconductor? This current is called reverse loss current and is due to minority charges (electrons in the P and holes in the n). -2021 06:57:31 since the transistor operation is carried out by two types of charge carriers (majority and minority carriers), an ordinary transistor is called bipolar. Q2. It's called tension buffer. Why is the collector always a reverse W.R.T base? Q8. Why is there a maximum limit of the collector's power voltage for a transistor? The current of the IC collector and the IE emitter current are relatively close of size. For the PNP transistor, the conventional current flows into the hemetmer, as indicated by the arrow inwards. Important facts about Bjtthere are two PN joints, so a transistor can be considered a combination of two britches related back-to the collector's region is more wide both of the farm and the base. Cié constitutes the current of the heaters (). No. Because in the case of two connected Dark-to-back diodes there are four drug regions instead of three and there is nothing that resembles a thin basic region between an emitter and a collector. The collector's common configuration has the maximum impedance of input and has a voltage gain less than units. His other name is the follower's follower. What do you understand with the collector's inverse saturation? The emitter and the collector are eliminated by the N-type semiconductor and the basic terminal is by the P. In semiconductor of the BJT symbol, the arrow on the terminal of the farm indicator indicates the direction of the conventional current in the emitter with prejudice forwardQ5. Q22. The base is very thin of both emitters ilG .esab alla)irof o inorttele(irotacirac id oremun roiggam nu erinrof assop ehc odom ni depod etnemetnasep "A erotiteme'L .otidaib-osrevni oivib led alleuq a ottepsir aloccip otlom "A atasaib-itnava ni inoiznuig id aznetsiser aL .osrevni osnes ni "A esab-erottelloc led enoiznuig al ertnem ,itnava ni attaf "A TJB led rettme esab alled enoiznuig al ,elareneg nI .erottelloc e erotiteme art inoiznuig-np eud amrof esaB atamaihc "A elartnec enoizes al e ,rotcelloC atamaihc "A enoizes acinu'L .n opit id erottudnoci es id itarts eud iad itavelerp onos rotcelloC e rettimE .rotsisnart li gnisab id Ätissecen al eretucsD ?esab e erotiteme id ednarg "A ip oser "A erottelloc li ©AhcreP .51Q BI/CI = 1 : esab id etnerroc alla erottelloc etnerroc id otroppar emoc otinified "A de rotsisnart elat id enumoc etnerroc ongadaug li "A "2 erottaf led rotsisnart II .61Q .)\$ }E { _I{ \$(erotiteme id eciutsoc e epty-n esab id opit id erotiteme id enoiger allen irof id ossulf li acovorp esab-rettme enoiznuig id itnava ni saib li ,rotsisnart-pnp li reP PNP rotsisnart led enoizaroval \$\$ }C { _I{ = } }B { _I{ = } }E { _I{ mrhtam \$\$.erottelloc e esab id itnerroc id ammos al "A erotiteme id etnerroc aL .erottelloc otuicrc len errocs ecirtiteme etnerroc aretni'l ,odom otseuq nI .oilgat id enoiger allen ovitarepo ait rotsisnart li ehc ecid is ,etitrevni onos inoiznuig el ebmartne odnauQ .amissam atnevid erottelloc etnerroc al e osuicr erotturretni nu emoc ecsiga enoizarutas id enoiger allen otarepo rotsisnart II .41Q)± 1/-1/± 1 = ± 1/2 : otiusges id emoc italerroc onos "A ip e ± 1 .aznetop atlom erapissid id olleuq "A erottelloc li ©Ahcrep esab e erotiteme id ednarg "A ip etnemacisif oser "A erottelloc II .desaib asrevni esab-erottelloc esab al e itnava ni desaib eresse eved erotiteme-esab id enoiznuig al ,otnemanoiznu elamron li reP .atsinoizelloc remaining (more than 95%) cross the basic region and reach the collector collector .P opit id esab allen N opit id erotiteme llad inorttele id ossulf li acovorp itnava ni enoisrotsid al ehc eredev "A up is ,asrevni asrevni erottelloc led esab alled enoiznuig al e itnava ni erotiteme id esab a enoiznuig al noc NPN rotsisnart led enoizaroval aL .erotiteme llled etnerroc alla elaugu isauq e erotiteme llled etnerroc al ,otnatreP .erotaciflpma ad egnuf "A ic ,elobed elanges nu id azrof al eratnemua "A TJB TJB id elapicnirp enoiznuif aL .otsoppo opit id irottudnoci es id aippoc anu art N opit id erottudnoci es a elairetam o gniciwdnas etnaidem etamrof NP inoiznuig eud ad otuititsoc "A)TJB(enoiznuig id eralopib rotsisnart nU krowtenscinortcelE latigiDlacirtcelE & scinortcelE .inorttele ilg noc anibmoc is)%5 led onem(irof id oremun oloccip nu olos idnuiq ,elittos otlom e atagord etnemreggel "A esab al ©AhcreP .erottelloc led etnerroc al atnemua otseuq e erotiteme llled enoiznuig alla itatteini irottev i "A eroiggam ,erotiteme llled enoizeini id azneiciffe lled erolav li "A eroiggam bi/cI = *2 A®A orevvo ,otropsart id erottaf emoc otion "A esab id etnerroc e erottelloc led etnerroc art otroppar II .erottelloc led etnerroc al atnemua idnuiq e erottelloc led enoiznuig al osrevartta itatteini irottev i "A eroiggam ,*2 A®A erolav li "A eroiggam ?obci >> oeci ©Ahcrep ageipS .71Q OBCI >> oeci ,) Ätinu'lla elaugu isauq "A ± A®A ©Ahcrep)± A®A -1/obci = oeci :emoc totad "A OECI .atrotsid "A erottelloc id esab a enoiznuig al e itnava ni atrotsid "A erotiteme llad esab ni enoiznuig al ,erotaciflpma emoc otas rotsisnart nu odnauQ .rotsisaiB o TJB emoc aton "A TJB led enoiznuig eud ella CC enoisnet atterroc alled enoizacilppa'L .91Q .32Q .11Q .4Q ?rotsisnart led olobmis len aiccerf id atset alled otacifingis li "A lauQ ?etnerroc otallortnac ovitisopsid amaihc is rotsisnart li ©AhcreP .) (atsinoizelloc led etnerroc al eriutitsoc emitting-base and collection junction. During the transistor operation, a heat lot is generated to the collector, then the collector is made larger to dissipate the heat. heat. It has three sections of semiconductor drugs. The IB base current is always the smallest. Although the collector's current is practically independent of the collector's power voltage on the transistor operating range, but if the VCB increases beyond a certain IC of the Vale Collector current, it quickly and possibly destroys the device. How are they related to each other? The ratio of injected vectors to the emitter junction with the total emitter current is called the emitter junction efficiency. Q18. Q18.

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