



-6-	Ata in Out lambadance is well high (MOSFET)
3	It's infut impedence is very high (MOSFET) It's area is also very less so wery easy to be used in the IC fabric-
	- ation.
- 3	- William
	FET ousistance is nearly about 1 m s.
	large bandwidth.
3	GBW of BJT > GBW of FET.
- 35	:Disaduantage:-
	offset voltage = 0.
	Smaller gain.
	sylvion thancement.
3	Pare-existing channel.
3	Suitable to obvate lox both
3	depletion made and enhancement . Only operated at enhancement
	made.
	(707)
3	(JFET) It is an unipolar transister which art as a nollage rontrol current
13	denice.
	\(\text{\text{\$\cute{4}}}\)
	The second of th
1000	hierary in a transfer of the
0	
0	
3	
3	
3	
3	
	Scanned with CamScanner



		1800
		-6
- 1	FET (Field Effect transition)	60
	FET is the three terminal unipolar denice. It stands for field	6
	effect transistor;	
•	They are used for the application that match to the large	6
	extent to the BIT transistan.	-
• .	BJT transistax is current controlled device.	6
	JEET = Voltage Controlled dervice.	130
	VIC VID	
	Controlled	
	Current BJT - JFET	693
~ 1	Neltage 1	
	(Vas) -	
	(A) (B)	
- 134 - 2 0	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
·	In figure (A) the current Ic is direct function of level of IB.	(B)
•	In figure (B), the current 10 is the function of nottage VGS.	
	The device in which awvent at a electrode is controlled by the	
	action of electric field at In junction.	6
	where of concess first too pro farmens	
	In fit, gate is vreated by survey brased junction.	
	(MOSFET weater the junction via conductive gots Expirated from	8
	the gote region by a thin insulator	6
2	q q q	9
	There are n-channel and p-shannel fet. (bi-denotes the	E.
	conduction level is a function of two charge covices).	-6
	The fit the conduction depend solely upon electron (n channel)	-
	or holes (in p channel).	
		8
in	,	6
		-



-5-	
20	. Les fet an electric field is established by the changes present that
3	and an trail He annual to the Kally of the
20	the need for direct contact believes the controlling and
	controlled quaridies.
100	Concediti quantiti
10	· Construction and Characteristice of JFET.
03	- Construction and thatacteristic of of the surpoble to control
Est.	current between the two. Drain (D)
03	n channel
30	
3	Gate of P
	Depletion segion
3	
3	Depletion
3	shmis source
	Contact.
3	& JEET.
200	
-3	The basic construction of JFET is shown in figure major part of
	the structure is a light maleual mal parmy me property
TO	1 Carlova AV W. VIII V (VVIIVO)
-(2)-	40 40 10 Alanahil de comucia interior and constitution
Cr.	known as drain. Lower end seffered as source. The & p. type
	Known as aroun, woner was soft
.	motived are connected thorough the gate.
खे.	
0	: The duain and estine see connected to the 2 empedded f-
0	type motivial
	: Under no fotential JFET is under no bias condition with 2
ख	
9 9	A A A A B DAVALAN AVAILAN AVAILAN
- Va	the source can be linked to appear nothing for source: The gate well that will exhabit the flow of doubton from the source: The gate well
3	control the flow of charge to the drain. The drain of source
45.00	V V V

