	вјт	JFET	MOSFET
Symbol	8 8	JFET O Drain Source	MOSFET Drain Gak Source
a> belinition	Current is due to both e- of holes that's why it is called Bipolar Function Device.	Current is due to either e- or holes that why it is called unipolar device	Current is due to e-or holes that why it is called unipolar device.
3> Input Resistance	low	large (IM_IZ -5MI)	very large
4> Biasing used	fixed bias, CB bias	Self bias	DMOSFET - self bies EMOSFET - feedback lies
-5> Obvating - Region	Active, Saturation & . Cutoff	. Ohmic of Pinch off	Sinear & Saturation
-6:> Thermal - Runaway		No thermal runaway	No Thermal hunaway
- 7:>Terminals - -	Base, Emitter & Collector	Grate, Drain & Source	Grate, Drain & Source
- 8> Input Current	in order of mA.	in order of nA	in order of pA
9:> Application	s fow Current application	How valtage application	power consumption is less.

It. How are MOFETS better than JFET?

- 1> Compared to IFET, MOSFETS are easin to fabricate
- 2> JFET'S are operated only in the depletion mode. The depletion type MOSFET may be operated in both depletion and enhancement modes.

 3> Drain Resistance is higher in JFET than the MOSFET.
- 4) gate leabage current in JFET nA gate leabage current in MOSFET — pA
- 5> Input Resistance JFET MOSFET 1010-1015 IL
 - 6> Mosfet has zero offset Voltage
 - 7:> Source of brain terminals can be interchanged
 - 8.) In a JFET, transmise electric field across the RB-PN func on controls the conductivity of the channel. In a Mas FET, the transmisse \vec{E} induced across an insulating layer deposited on the semiconductor material controls the conductivity of the channel.

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