DCS Characterstics of Logic Families of the selection of family for an applicate depend its characterstics. tellowing parameters are used to compare the ferformance of digital. O speed of operation (6) 1 + I paramaters @ Power Dissifation @ Noise mounty 1 Figure of Werit (8) love Supply Requirement 1 Fan Out 1 Operating Temp B Fan in & speed of operat (i) Speed of operat of an IC should be high (ii) Specified in terms of propagat delay time in) It's the avg. of Too from high to low start down to high start.

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I've Propagat delay before if topp should be a him sto . Paver Dissipater OFApressed in mh all wastage of power across the che components? . Figure of mont.

speed of operat & power dissipate ": Power dissipate should be less which will reduct so, figure of mont is a parameter considered for companion Pigure of mait = propagate delay x power dissipat · V&I Parameter Defines min. I mot. Simit et annent trottage for ille MINITE Migh Clow level Migh flow leve JON, VOL bush wolffeit Night law level The arrest of corrent of vallage All Aspelade

voltage aurant correct High devel- Min ilp/ofp to logic 1 state, voltage/current com 100 Jevel- Max. ilpføle to logic O state · far-Out. capability of a logic gate to drive the max of similar gestes. High four cent is adventigely because it reduces the need of additionals to drive more gots. Far. out = min. of S I on JoI · fan-In Fan in is the no. of ill gades. · Noice Firmingty Unwanted signal are known as roise. F 48 may induce roise at an ilp of digital ig Due to roise if voltage may droopter six below UIN en ister above UI wolld expected operations. Noise immunity of a digital cht. is ability to