

3. a	LED NSPW 500 BS
b	. Forward on-voltage for the LED:
1	current of IMA @ (2.8 V)
4.	Assume:
-	- Di: Forward Biosed
-	- O2: Reverse Biorsed
	Voltage at Point X
	= Forward Voltage Orop of O.
	= 0.7 V
	If Vinput > Voo + 0.7 V:
	D2 -> Forward biased, conducting:
	Clamping Vpoint x = VDD + 0.7V
	If Vinput < -0.7 V:
	0, -> Kellerse bioused, Conducting.
	Champing Vpoint x = -0.7 V
	Diodes:
	Can function like damps
	-> When: forward-biarsed State
	/ ration of
	D1: Clamps Upoint x = max of 0.7 V
	DI. Charry S regint x above ground
	· ·
	0 . d a Vanil = max of 0.7 V
	III + CL., Or MONI W - HWAY VI VIV '

D2: Clamps Vpoint x = max of 0.7 V below VDD