07/06/2L

Voltage Multiplier Cincuits 5

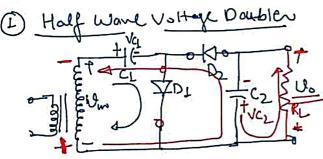
012 40V = 20V XZ => Voltage Doubler

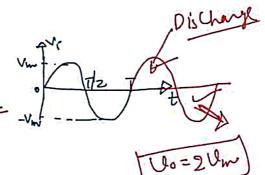
GOV = 20VX3 3) Voltage Triplica

BOV = 201 X4) Whate Budrupier.

Voltage Doubler

- 1 Half-wave Voltage Doubler
- 2) Full wave Voltage Doubles.





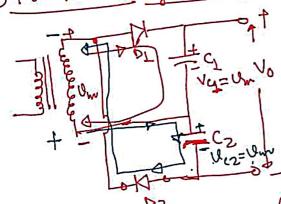
OO-TZ DLOON, D2 OFF 0m - VCL = 0 => [VCL = Um]

3 TIZ-T DI >OFF, DZ ON Vm - Vcz + Vq = 0 => Vcz = Vm + Vq = Vm + Vm = 2Vm

Vo= Vz = 2 Vm = 2 Vi

Vo = 20;

2) Full Ware Vo Hoge Doubler



GO-ATIZ, DIDON, DIDOFF

D2 (2) T2 >T, D1 > OFF, D2 > ON

10 - 11. 11. = 0 ... + 1 m = 2 Um = 2 Ur

00= Va + Vc2 = Um + Um = 2Um = 2 Ur Us = 900 VoHage Fripler and Quadrupler: Z D3 Vw-Vcs =0 = Vcl= Um D 15+ Hay yell 3 2) 2hd Half Cycle & Iw -Vez +Um=0 = D Vez= 2Um Bore Half cycle => Um - Ucz - Ucz + U6 = 0 10cz = Um + Ucz - Ucz = Um+2Um-Um=2Um not cycle Vm-Vcz-Vcu+Vc3+Vc1=0 Ocy = Um - Ucz + Ucz + Ucz = Um - 20m + 20m + Um = 20m Vcy= 20m Voltage Regulator. 1) Determine, ILIVL, IZ, IR H RL= L800. @ if RL= 470~ 20V Brop 400 mu 3) Find Remarimum and Remine for Ropen working of Zener. & 0.22KN Find Vinin & Vimap = 8 08/06/26 LASER Special Dides. 1.LED (Light Emitting Devote)

