NAME: SUNDAY WINNER CHIGOZIRIM

COURSE: ENG 222 (BASIC ELECTRICAL ENGINEERING)

DEPT: MECHATRONICS ENGINEERING

MATRIC: 18/ENG05/057

| | 100 mg 1 100 mg | |
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| NAME: SUNDAY WINNER CHICOU | | A COLUMN TO THE REAL PROPERTY OF THE PARTY O |
| CSURSE: | | |
| MATRIC: 18/6NG05/057 | | |
| DEPT: MECHATRONIL ENGINEERIN | 5 | |
| BASIC SISCIRICAL SNGINSSER | NG ASSINGME | not solution |
| () the zener diode is like a | general purp | ose signal diode. When |
| biased in the forward direction, it behaves just like a normal | | |
| signal diode, but when a reverse voltage is applied to it, the | | |
| soltege remains constant pr | a whole mo | le range of currents. |
| The reverse voltage can incre | age rufil the | e diole breatchown |
| vatage is achieved this por | int is called | the avalanche region? |
| breakdown region". At this | port morsesh | num current will flow |
| through the zener diode. This point of breakdown is called the | | |
| "zeror edtage". At it's reverse bins, the diode has a constant | | |
| regative voltage regardless of | the arrent | flowing through the diods |
| and remarks const warry con | stant even wi | th large changes in current |
| as long as zener diode anvi | ent remarks | nearly constant between |
| the breakdown airrent and | the mascimum | n arrest. |
| FORWAR | D | |
| (i) CURPENT | A The same | 1 |
| | FORWARD | |
| | REGION | |
| 811 | 11-28 5 | 1 2 - 12 - 13 |
| | 1 | |
| REVERSE BIAS -VZ | 1 | |
| 1 -1 | Vie | →+V _F |
| F2(m,n) | | FORWARD BLAS |
| VZENER" BREAKDOWN | | 20,0 |
| RECTION | | |
| | 178 K had water | |
| | 200 3.00 | |
| Iz (MAX) | | 7734-07Kg-1766 |
| -2 (MAX) | | |
| | | |
| -I, | V REVERSE CURRENT | |



