

dioda

c. Mampu membuat rangkaian menggunakan dioda

d. Memenuhi tugas mata kuliah elektronika

2. Komponen

2.1 Baterai

Baterai menyimpan energi potensi listrik dalam bentuk sel elektrokimia (sel volta). Ketika kutub positif dan negatif baterai di hubungkan, potensi listrik kedua kutub akan menyebabkan arus listrik mengalir.

2.2 Dioda 1N4001 dan 1N4004

Dioda 1N4001 dan 1N4004

Kedua dioda tersebut digunakan sebagai penyearah.

2.3 Resistor



Resistor atau hambatan adalah salah satu komponen elektronika yang memiliki nilai hambatan tertentu, dimana hambatan ini akan menghambat arus listrik yang mengalir melaluinya.

Cara menghitung nilai resistansi resistor:

2.4 Ground

data-original-height="194" data-original-width="259" height="149" src="https://1.bp.blogspot.com/-MR437RaIDBc/XkjmxfHBZ9I/AAAAAAAAACsQ/p0wNsYKXBxiohfMIX8UgqiskRymDnptvUgCLcBGAsYHQ/s200/images%2B%252819%2529.jpeg" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; border: 1px solid rgb(237, 237, 237); box-shadow: rgba(0, 0, 0, 0.1) 1px 1px 5px; padding: 5px; position: relative;" width="200" /></div>
Ground atau pertanahan adalah sistem pengamanan pada instalasi listrik dimana jika terjadi kebocoran listrik maka listrik akan langsung mengalir ke tanah sehingga tidak melukai pengguna.
</div><p>3. Dasar Teori [kembali]</p><div style="background-color: white; color: #333333; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; text-align: justify;"> </div><div style="background-color: white; text-align: justify;"><div class="separator" style="clear: both; text-align: center;"><div style="color: black; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; text-align: justify;">Pada umumnya, sebuah dioda dikatakan “on” jika arus yang dilewatkan berasal dari sumber yang digunakan memiliki arah yang sesuai dengan panah pada simbol dioda, dengan $V_d \geq 0,7 \text{ V}$ untuk silikon dan $V_d \geq 0,3 \text{ V}$ untuk germanium.

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</div><div style="text-align: justify;"><div class="separator" style="clear: both; color: black; font-family: Arial, Tahoma, Helvetica, FreeSans,

sans-serif; font-size: 13.2px; text-align: center;">"><div class="separator" style="clear: both; text-align: center;"></div></div><div class="separator" style="clear: both; color: black; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
</div><div class="separator" style="clear: both; color: black; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
</div>Rangkaian seri pada gambar 2.8 yang dijelaskan secara rinci dalam bagian 2.2 akan digunakan untuk menunjukkan pendekatan yang dijelaskan dalam paragraf di atas. Keadaan dioda pertama kali dijelaskan dengan mengganti dioda dengan elemen hambatan seperti yang ditunjukkan pada gambar. 2.9a. Arah arus yang dihasilkan sesuai dengan panah pada simbol dioda, dan karena E>Vt, dioda berada dalam keadaan "on". Rangkaian kemudian digambar ulang seperti pada gambar. 2.9b dengan rangkain setara yang sesuai dengan bias maju dioda silikon.

Resultan tegangan dan arus yang dihasilkan mengikuti persamaan:

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</div><div class="separator" style="clear: both; color: black; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px;">Pada gambar 2.10 dioda pada gambar 2.8 dibalik posisinya. Jika dianalogikan dioda sebagai sebuah hambatan seperti yang ditunjukkan pada gambar 2.11 terlihat arah arus yang dihasilkan tidak sesuai dengan panah dalam simbol dioda sehingga dioda dalam keadaan "off" sehingga membentuk rangkaian seperti gambar 2.12. </div><div class="separator" style="clear: both; color: black; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px;">
</div><div class="separator" style="clear: both; color: black; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
</div>
<div class="separator" style="clear: both; color: black; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;"><div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/a/AVvXsEjvi3s23V_kRMYq_KB4A1KGy7NiwrFZLU3

mkec6Z2AICKNq1cVPR7IDIGoQg1_w6d-D0Bnf3D0cExbf2jP4U9JaEjGkgCRuwr0KiZfUGMgfsVbmjbKEJwNcoH2Wh7dIWLYDADT0a9AieSabUJsbawpDSurjimhbZGx4YVYOX5t6zGlxB-iFH9Dh7Vg" style="margin-left: 1em; margin-right: 1em;"></div>

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</div>
Dalam keadaan ini, arus yang melewati dioda adalah 0 A dan tegangan di resistor R adalah:
<div class="separator" style="clear: both; color: black; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;"></div><div class="separator" style="clear: both; color: black; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: justify;">
</div><div class="separator" style="clear: both; text-align: center;"><div style="color: black; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; text-align: left;">fakta bahwa $V_R = 0\text{ V}$ akan membentuk volt E melintasi sirkuit terbuka seperti yang didefinisikan oleh hukum tegangan Kirchhoff. Ingatlah selalu bahwa dalam kondisi apa pun DC, AC nilai sesaat, dan seterusnya – hukum tegangan Kirchhoff harus dipenuhi! </div><div style="text-align: left;">
</div></div></div></div></div></div><div><p>4. Example [kembali]</p><p>a.) Untuk konfigurasi dioda seri pada Gambar 2.13 , tentukan V_D , V_D , V_D , dan I_D .</p><p></p></div>
</div><div><div class="separator" style="clear: both; text-align: center;"><img alt="" data-original-height="462" data-original-width="616" height="200" src="https://blogger.googleusercontent.com/img/a/AVvXsEiqNnM_DNkWfy3_jYtNR9FsYbvUfVdKUvnE0dIlSDg7nnficRMr87XzfMnmcm6OomubnZHMvc7-f6nOi90wmGqROFVJ8cAGoRVunu7-w6Js0MHgTCwEeLrx-noANWovhjnqWB2YerJqmrkMrtpsQqU9KAESJ_DKztNq7fvUb-ZtGwfbmqVWHA6J37ZlIQ=w2

[illegible]

sesuai, seperti yang ditunjukkan pada Gambar. 2.18. Hasilnya

Oleh karena itu, level tegangan dan arus adalah sebagai berikut:

$$D = 0 \text{ A}$$

$$V = 0 \text{ V}$$

$$R = 0 \text{ A}$$

$$1,2 \text{ k} = 0 \text{ V}$$

dan

$$D = 0,5 \text{ A}$$

5. Problem

1. Tentukan arus I untuk setiap konfigurasi pada Gambar 2.155 menggunakan perkiraan

model ekuivalen untuk dioda

solusi:

2. Tentukan V o dan I D untuk jaringan pada

Gambar 2.156</div><div class="separator" style="clear: both; text-align: justify;"><div class="separator" style="clear: both; text-align: center;"><div class="separator" style="clear: both; color: #666666; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; text-align: center;"></div><div class="separator" style="clear: both; color: #666666; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; text-align: center;">
</div><div style="text-align: left;">Solusi:</div><div style="text-align: left;">
</div><div class="separator" style="clear: both; text-align: center;"></div>

</div><div class="separator" style="clear: both; text-align: center;"></div>
</div><div style="background: white; line-height: normal; margin-bottom: 0in;"><div class="separator" style="clear: both; text-align: center;"></div>

</div><div style="background: white; color: #666666; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; line-height: normal;

margin-bottom: 0in;"><p style="box-sizing: border-box; color: #222222; font-size: 13.2px; margin: 0px 0px 15px; overflow-wrap: break-word; text-align: justify;">
</p></div><p>6. Pilihan Ganda [kembali]</p><div style="background: white; color: #666666; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; line-height: normal; margin-bottom: 0in;">a). Pada 250C, potensial berier kira-kira sama dengan untuk dioda silicon<br style="box-sizing: border-box;" /> a. 0, 1 V d. 0, 3 V<br style="box-sizing: border-box;" /> b. 0, 5 V e. 0,6 V<br style="box-sizing: border-box;" /> c. 0, 7 V</div><div style="background: white; color: #666666; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; line-height: normal; margin-bottom: 0in;">
</div><div style="background: white; color: #666666; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; line-height: normal; margin-bottom: 0in;">Jawaban : C</div><div style="background: white; color: #666666; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; line-height: normal; margin-bottom: 0in;">
</div><div style="background: white; color: #666666; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; line-height: normal; margin-bottom: 0in;">b). Pada dioda junction, Sisi-P mempunyai</div><div style="background: white; color: #666666; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; line-height: normal; margin-bottom: 0in;"><br style="box-sizing: border-box;" /> a. 10 hole d. Banyak proton<br style="box-sizing: border-box;" /> b. Sedikit hole e. Banyak elektron<br style="box-sizing: border-box;" /> c. Banyak hole</div><div style="background: white; color: #666666; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; line-height: normal; margin-bottom: 0in;"><br style="box-sizing: border-box;" />Jawaban: c</div><div style="background: white; color: #666666; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; line-height: normal; margin-bottom: 0in;">
</div><div style="background: white; color: #666666; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; line-height: normal; margin-bottom: 0in;">c). material pada dioda merupakan...</div><p style="background-color: white; box-sizing: border-box; color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; margin: 0px 0px 15px; overflow-wrap: break-word; text-align: justify;">a. konduktor</p><p style="background-color: white; box-sizing: border-box; color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; margin: 0px 0px 15px; overflow-wrap: break-word; text-align: justify;">b. isolator</p><p style="background-color: white; box-sizing: border-box; color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; margin: 0px 0px 15px; overflow-wrap: break-word; text-align: justify;">c. semikonduktor</p><p style="background-color: white; box-sizing: border-box; color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; margin: 0px 0px 15px; overflow-wrap: break-word; text-align: justify;">d. semiisolator</p><p style="background-color: white; box-sizing: border-box; color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; margin: 0px 0px 15px; overflow-wrap: break-word; text-align: justify;">e. salah semua</p><div style="background: white; color: #666666; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13px; line-height: normal; margin-bottom: 0in;">

</div><p>7.
Rangkaian [kembali]</p><p>a. Gambar Rangkaian</p><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;"></div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">Gambar 2.8</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;"></div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">Gambar 2.9a</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;"></div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">Gambar 2.9b</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica,

FreeSans, sans-serif; font-size: 13.2px; text-align: center;"></div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">Gambar 2.10</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;"></div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">Gambar 2.11</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;"></div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">Gambar 2.12</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;"><div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/a/AVvXsEjjA8Wh0DFX4aJQpxw6US3x46qcPeQGZ7

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style="margin-left: 1em; margin-right: 1em;"></div>Gambar 2.13</div><div class="separator" style="background-color:
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text-align: center;">
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class="separator" style="clear: both; text-align: center;"><a
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style="margin-left: 1em; margin-right: 1em;"></div>Gambar 2,14</div><div class="separator" style="background-color:
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text-align: center;">
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font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;"><br
</div><div class="separator" style="background-color: white; clear: both; font-family: Arial,
Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;"><div class="separator"
style="clear: both; text-align: center;"><a
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style="margin-left: 1em; margin-right: 1em;"></div>Gambar 2.16

<div class="separator" style="clear: both;
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center;"><a
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margin-right: 1em; text-decoration-line: none;">
</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;"></div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">Gambar 2.23</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;"><div class="separator" style="clear: both; text-align: center;"></div>Gambar 2.24</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
<div class="separator" style="clear: both; text-align: center;"></div>Gambar 2.25</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;"></div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">Gambar 2.27</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;"></div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">Gambar 2.26</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: center;">
</div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: left;">b. Video Simulasi </div><div class="separator" style="background-color: white; clear: both; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 13.2px; text-align: left;">
</div><div class="separator" style="clear: both; text-align: center;"><object class="BLOG_video_class" contentid="4449c19b59b1c53a" height="186" id="BLOG_video-4449c19b59b1c53a" width="224"></object></div><div style="text-align: center;">2.8</div><div style="text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;"><object class="BLOG_video_class" contentid="20fd221a5702be7c" height="184" id="BLOG_video-20fd221a5702be7c" width="222"></object></div><div style="text-align: center;">2.9a</div><div style="text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;"><object class="BLOG_video_class" contentid="003c8ef2a87dcf59" height="183" id="BLOG_video-003c8ef2a87dcf59" width="220"></object></div><div style="text-align: center;">2.9b</div><div style="text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;"><object class="BLOG_video_class" contentid="0daf118e66e12199" height="187" id="BLOG_video-0daf118e66e12199" width="225"></object></div><div style="text-align: center;">2.10</div><div style="text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;"><object class="BLOG_video_class" contentid="24db957b0816915f" height="197" id="BLOG_video-24db957b0816915f" width="237"></object></div><div style="text-align: center;">2.11</div><div style="text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;"><object class="BLOG_video_class" contentid="a6a18740febf551" height="195" id="BLOG_video-a6a18740febf551" width="234"></object></div><div style="text-align: center;">2.12</div><div style="text-align: center;">
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</div><div class="separator" style="clear: both; text-align: center;">
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</div><div class="separator" style="clear: both; text-align: center;"><object class="BLOG_video_class" contentid="b443b3a7cb1c8223" height="214" id="BLOG_video-b443b3a7cb1c8223" width="258"></object></div><div class="separator" style="clear: both; text-align: center;">2.19</div><div class="separator" style="clear: both; text-align: center;">
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</div><div class="separator" style="clear: both; text-align: center;"><object class="BLOG_video_class" contentid="ee89edb105d3e615" height="194" id="BLOG_video-ee89edb105d3e615" width="233"></object></div><div class="separator" style="clear: both; text-align: center;">2.22</div>
<div class="separator" style="clear: both; text-align: center;"><object class="BLOG_video_class" contentid="7aef92ded530f7c0" height="188" id="BLOG_video-7aef92ded530f7c0" width="226"></object></div><div class="separator" style="clear: both; text-align: center;">2.23</div>
<div class="separator" style="clear: both; text-align: center;"><object class="BLOG_video_class" contentid="87e5d86c07a79864" height="183" id="BLOG_video-87e5d86c07a79864" width="221"></object></div><div class="separator" style="clear: both; text-align: center;">2.24</div>
<div class="separator" style="clear: both; text-align: center;"><object class="BLOG_video_class" contentid="d71c27ed2fe6be90" height="173" id="BLOG_video-d71c27ed2fe6be90" width="208"></object></div><div class="separator" style="clear: both; text-align: center;">2.25</div><div class="separator" style="clear: both; text-align: center;">
</div><div class="separator" style="clear: both; text-align: center;"><object class="BLOG_video_class" contentid="c488c3377d7deed3" height="185" id="BLOG_video-c488c3377d7deed3" width="223"></object></div><div class="separator" style="clear: both; text-align: center;">2.26</div><div class="separator" style="clear: both; text-align: center;"><object class="BLOG_video_class" contentid="0095543b44861049" height="178" id="BLOG_video-0095543b44861049" width="214"></object></div><div class="separator" style="clear: both; text-align: center;">2.27</div><div class="separator" style="clear: both; text-align: justify;">c. Prinsip Kerja</div><div class="separator" style="clear: both; text-align: justify;">Untuk setiap konfigurasi, kita dapat mengganti dioda dengan elemen hambatan dan perhatikan arah arus yang dihasilkan. Jika

arah yang dihasilkan adalah “sesuai” dengan tanda panah pada simbol dioda, maka akan terjadi konduksi melalui dioda, dan perangkat dalam keadaan “hidup”.hal ini dapat terjadi

ketika tegangan sumber lebih besar dari tegangan “turn on”

“Calibri”""sans-serif"," style="color: #222222; font-family: Arial, Tahoma, Helvetica, FreeSans, sans-serif; font-size: 11pt; line-height: 16.8667px; position: relative; text-align: left; top: 4.5pt;">

V

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) dari setiap dioda.

Namaun, Jika dioda berada dalam keadaan terbalik, maka arah panah pada dioda tidak akan sesuai dengan arah arus yang dihasilkan, sehingga mengakibatkan dioda berada dalam status “off”.

<a>

8. Download File [kembali]

a. download HTML

b. download gambar

gambar 2.8

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gambar 2.9

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gambar 2.9b

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gambar 2.10

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gambar 2.20

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gambar 2.21

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gambar 2.22

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c. video simulasi

rangkaian

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