



</div></center>

<p><a name="tujuan1">

</a><b>1. Tujuan</b>&nbsp;<a href="#tujuan">[back]</a></p><p

class="MsoNormal"><span style="font-family: &quot;Times New Roman&quot;;,serif;

font-size: 12pt; mso-ansi-language: IN;">- mengetahui apa itu analisis garis beban

dioda<o:p></o:p></span></p><p class="MsoNormal"><span style="font-family: &quot;Times

New Roman&quot;;,serif; font-size: 12pt; mso-ansi-language: IN;">- mengetahui

persamaan-persamaan yang berhubungan dengan

analisis garis beban<o:p></o:p></span></p><p>

</p><p class="MsoNormal"><span style="font-family: &quot;Times New Roman&quot;;,serif;

font-size: 12pt; mso-ansi-language: IN;">- mengetahui serta mampu membuat bentuk

rangkaian

analisis garis beban dioda<o:p></o:p></span></p><p></p>

<a name="komponen1">

</a><b>2. Komponen</b>&nbsp;<a href="#tujuan">[back]</a></div><p

class="MsoNormal"><span style="font-family: &quot;Times New Roman&quot;;,serif;

font-size: 12pt; mso-ansi-language: IN;">a). Diode&nbsp;</span></p>

<p class="MsoNormal" style="text-align: justify; text-indent: 36pt; text-justify:

inter-ideograph;"><span style="background: white; color: #222222; font-family: &quot;Times

New Roman&quot;;,serif; font-size: 12pt; mso-ansi-language: IN; mso-fareast-font-family:

&quot;Segoe UI&quot;;">Dioda adalah k</span><span lang="EN-US" style="background:

white; color: #222222; font-family: &quot;Times New Roman&quot;;,serif; font-size: 12pt;

mso-fareast-font-family: &quot;Segoe UI&quot;;">omponen yang berfungsi untuk

menyearahkan sekaligus sebagai

penghambat arus listrik, disusun dari beragam bahan yang bersifat&nbsp;</span><span

lang="EN-US" style="background: white; font-family: &quot;Times New Roman&quot;;, serif;

font-size: 12pt;"><a href="https://thecityfoundry.com/semikonduktor/"

target="https://thecityfoundry.com/dioda/\_blank" title="semikonduktor"><span style="color:

black; text-decoration-line: none;">semikonduktor</span></a></span><span lang="EN-US"

style="background: white; color: #222222; font-family: &quot;Times New Roman&quot;;,serif;

font-size: 12pt; mso-fareast-font-family: &quot;Segoe UI&quot;;">. Umumnya jenis bahan

yang digunakan dalam

proses pembuatannya yakni seperti silikon, germanium, dan lain sebagainya.</span><span

style="background-color: white; color: #222222; font-family: &quot;Times New Roman&quot;;,

serif; font-size: 12pt; text-indent: 36pt;">&nbsp;</span></p><p class="MsoNormal"

style="text-align: center; text-indent: 36pt; text-justify: inter-ideograph;"></p><div

class="separator" style="clear: both; text-align: center;"><a

href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjUu3Z14Of03LEKi79w

QshQK4LAPzjbXwh3uwrCLLjbqOMrwC-NLlluW2j1h7UAN\_1rjxvozNjlme04Sv04IKYtbal3Mlg

4401u3dIC79Jh5J7ogixhk1nXvSmaYBR2c9qVJQlUNXO6lqZiiV\_drWuZvs0hMWECCEZGRf

v78LrMeOyKoS0UmilYfs4-6A/s99/Gambar1.png" style="margin-left: 1em; margin-right:

1em;"></a></div><div

class="separator" style="clear: both; text-align: center;">1.1 Tampilan diode dalam aplikasi Proteus</div><div class="separator" style="clear: both; text-align: center;"><br /></div><div

class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEhGY8EtFM4gW387L9zDk\_rW7fGMk0E58Ti5NQz4VnYNFacnGswvXI\_pT2GzKU8MAQLOMSAM3YKh46G5f9crCBHCqKAFjeT8ih3ZoGsN8LO8Gf6QEwZA1IRaJDKIL\_--812-KgormmDS0vpOf3FcpjMP3UgEpH8-H8BAimKs0kY9Vs2UvWedxfufWf5rdA/s362/Gambar2.png" style="margin-left: 1em; margin-right: 1em;"></a></div><div class="separator" style="clear: both; text-align: center;">1.2 Tampilan diode asli</div><span style="background-color: white; color: #222222; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt; text-indent: 36pt;"><br /></span><p></p>

<p class="MsoNormal" style="text-align: justify; text-justify: inter-ideograph;"><span style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt; mso-ansi-language: IN;">b). Baterai (Battery)</span></p>

<p class="MsoNormal" style="text-align: justify; text-indent: 36pt; text-justify: inter-ideograph;"><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt; mso-fareast-font-family: SimSun;">Baterai (Battery) adalah sebuah sumber energi yang dapat merubah energi kimia yang disimpannya menjadi energi listrik yang dapat digunakan seperti perangkat elektronik.</span></p><p class="MsoNormal" style="text-align: center; text-indent: 36pt; text-justify: inter-ideograph;"></p><div

class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEhsBUz6XFWYjoOY5KPASE63spxxxCyf2R2Er-IDnPulRq2kWnZROGPhQ9bzT4AUZC9CLDZJ8dDyF2vP2ljAqUmCpc1ThGt27yE8LCKxT7GJepCjsP5h133I5sLPXcvfa7NUieJ3V3r0JAKNr1BAAzkIqlpl4o\_V\_JHyuTCfU6MDLI-QxzvY2ciWwaRKw/s446/Gambar3.png" style="margin-left: 1em; margin-right: 1em;"></a></div><div

class="separator" style="clear: both; text-align: center;">1.3 Tampilan baterai pada aplikasi Proteus</div><div class="separator" style="clear: both; text-align: center;"><br /></div><div

class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEg7KxRQXciSvhrTG13\_oSeFj1OtCXXCcKg6Gp32YDUDkTWJL1ZLKO1tsOgfPnCGOCWh7O6UViLLdzNPibTZqqNkwnPMDV2ebaLN7RfioPbMjX5vQr8zco7b1ti\_hOJciU-DNJsQWeYLaHA21d\_JMtXI41C14-h2r2oea15mzR2moxRofkT6QaOSTUkQ/s640/gambar%20battery.jpg" style="margin-left: 1em;

margin-right: 1em;"></a></div><div





jelas, disebut analisis garis beban.

Garis beban

seperti yang sering akan dijumpai pada dioda

sebenarnya dari suatu arus dan tegangan dioda pada suatu rangkaian.

  
1.9 Rangkaian dioda sederhana

Gambar 2.1 (a) diatas merupakan bentuk rangkaian sederhana yang menggunakan dioda, sedangkan gambar 2.1 (b) merupakan tampilan karakteristiknya. Berdasarkan gambar dapat dilihat bahwa tekanan yang diberikan oleh sumber energi berupa baterai akan membentuk arus yang melalui rangkaian seri searah jarum jam.

white; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">Hasilnya polaritas melintasi dioda

akan seperti yang ditunjukkan dan kuadran pertama (VD&nbsp;dan ID&nbsp;positif) dari Gambar. 2.1b akan menjadi daerah yang menarik daerah bias ke depan.</span><span lang="EN-US" style="background: rgb(243, 244, 250); font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><o:p></o:p></span></p>

<p class="MsoListParagraphCxSpFirst" style="margin-left: 0cm; mso-add-space: auto; text-align: justify; text-indent: 36pt; text-justify: inter-ideograph;"><span lang="EN-US" style="background: white; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">Beban yang diberikan pada rangkaian secara normal akan mempengaruhi implikasi pada daerah kerja (operasi) dan piranti elektronik. Bila analisis disajikan dalam bentuk grafik, sebuah garis dapat digambarkan sebagai karakteristik diode yang mewakili efek dari beban.<o:p></o:p></span></p>

<div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEiHuuCH5dIxdO1kL5C0JhtwPbm3FucANQWpKNH-YbzC8o-p9dWHUuWbkm\_yngl78A-AXbGG1jUgHAcVOifrgiVdU-pjAY7anz009YDYhgzvmPg5UtDRSZTbVAA5BTzu7nki0hVxCjthBketzh5cEjl58fcXLfqSupcC2wStRyyItqEXaiuRHwdqBmnEUA/s404/Gambar6.png" style="margin-left: 1em; margin-right: 1em;"></a></div><div class="separator" style="clear: both; text-align: center;">1.10 Grafik analisis garis beban</div>

<p class="MsoListParagraphCxSpMiddle" style="margin-left: 0cm; mso-add-space: auto; text-align: justify; text-indent: 36pt; text-justify: inter-ideograph;"><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt; mso-fareast-font-family: &quot;Times New Roman&quot;; mso-fareast-language: IN;">Untuk menentukan analisa garis beban, dapat digunakan ketentuan hukum kirrchoff searah jarum jam yang menghasilkan :</span></p><p class="MsoListParagraphCxSpMiddle" style="margin-left: 0cm; mso-add-space: auto; text-align: center; text-indent: 36pt; text-justify: inter-ideograph;"><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt; mso-fareast-font-family: &quot;Times New Roman&quot;; mso-fareast-language: IN;"></span></p>

<div class="separator" style="clear: both; text-align: center;"><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt; mso-fareast-font-family: &quot;Times New Roman&quot;; mso-fareast-language: IN;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjpuoxWVAhxpGWPtZ3BnKF1TW3sj8Z7vglNikQCYnCWzx33UuocqnSVpZeDUv4eQ\_dDcRZiMdryB6LjzphIKcw-g-smA2WYpnm7SLYnn89ZA8h8eLFgUQP5q0Pus0vbUyDEnMAkIEky3LZrVm-edLLr784\_L8Jy0qzaAp6t0VTUMx2iaakVq8x8F53DJA/s155/Gambar7.png" style="margin-left: 1em; margin-right: 1em;"><img border="0" data-original-height="64" data-original-width="155" height="76" /></a></span></div>

src="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjpuoxWVAhxPGWptZ3BnKF1TW3sj8Z7vgINikQCYnCwz33UuocqnSVpZeDUv4eQ\_dDcRZiMdryB6LjzphIKcw-g-smA2WYpnm7SLYnn89ZA8h8eLFgUQP5q0Pus0vbUyDENMAkIEky3LzRvm-edLLr784\_L8Jy0qzaAp6t0VTUMx2iaakVq8x8F53DJA/w158-h76/Gambar7.png" width="158"

</a></span><span style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt; text-indent: 36pt;">&nbsp;&nbsp;&nbsp;</span></div>

<p class="MsoNormal" style="background: white; text-align: justify; text-indent: 36pt; text-justify: inter-ideograph;"><span style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">Perpotongan garis beban akan lebih mudah apabila jika kita </span><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">menetapkan  $V_D = 0$  </span><span style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">untuk mendapatkan nilai  $I$  </span><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"> $D$  </span><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"> </span><span style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">pada </span><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">sumbu vertikal. </span><span style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">Begitu juga untuk mencari nilai </span><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"> $V_D$  </span><sub><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"></span></sub><span style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">, kita dapat mengasumsikan nilai  $I$  </span><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial;



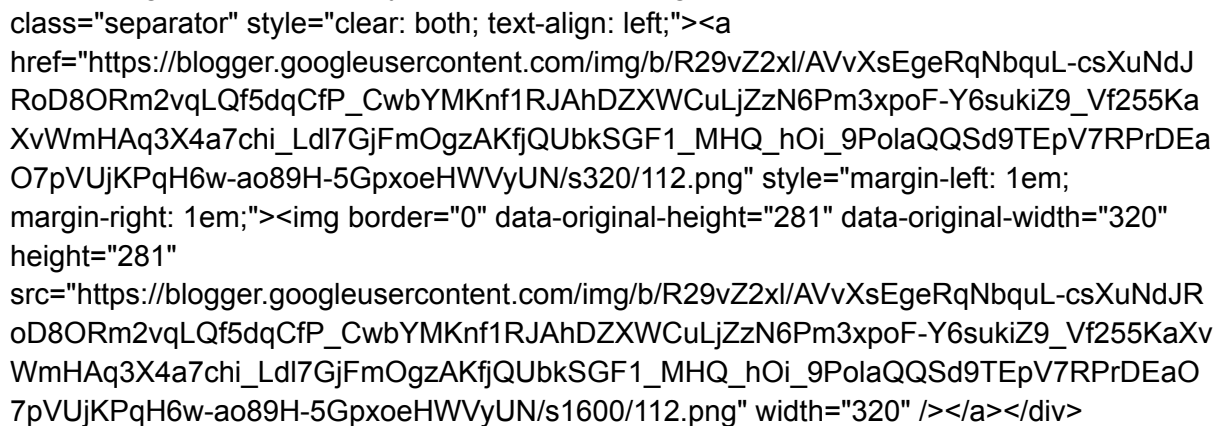
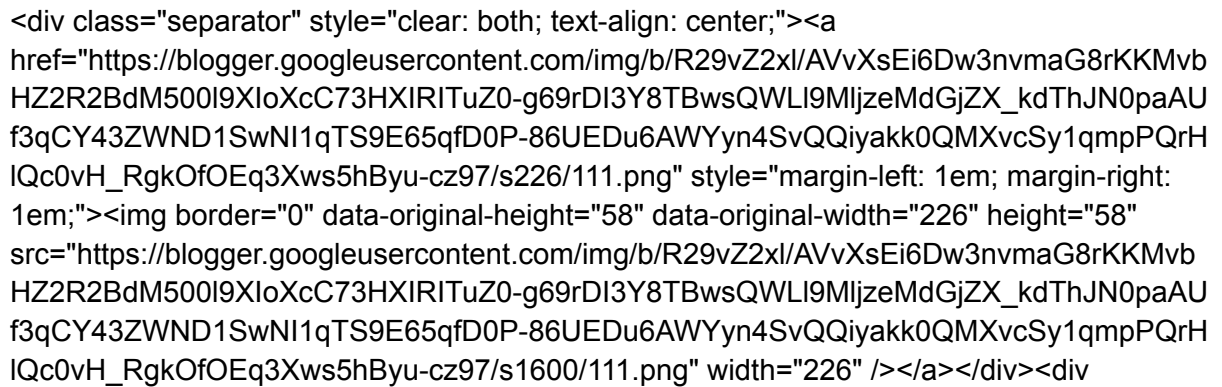
background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">D</span><span style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"> = 0 untuk mendapatkan nilai </span><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">V<sub>D</sub></span><span style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"> pada sumbu horizontal. </span><span style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><o:p></o:p></span></p>

<p align="center" class="MsoNormal" style="background: white; text-align: center; text-indent: 36pt;"><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">&nbsp;</span></p><div class="separator" style="clear: both; text-align: center;"><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEhQFRDn5KVVWJJdyVARqnJkT8qtrOeoafRqPiP4\_CPLIP815\_\_P-Xleg4LDKUq32lftW5Yb5qvIut7OtKODOtlypTu0Wa\_XWFGiLanRz\_dyTISkzy0Sr0NvQ2zbfadqnPgWazLHV0oOZPvr-aIHQel-VGj8PHSYgtlux48XErBfOJiBTB12Mh0aO42ODhA/s158/Gambar9.png" style="margin-left: 1em; margin-right: 1em;"></a></span></div><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><br /><div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEhQ2ac\_T59jsS3vFWTuHjssear8BC9Zg7HUgv48CyaH65x0aPaC1SFrPk231gWzq44uZ8jl-ZScwv90h9sOk9B7MmPNQIZSeCLt1urD0QgGDK6NkvfBuacpox-TdgWB1cAm5NHDZ0mJ1VuwCe2tew6mYOgQQ5\_sTc8tmMi0lwugxMBqCy\_1sBEubwEsjA/s137/Gambar8.png" style="margin-left: 1em; margin-right: 1em;"></a></div><br /></span></p>



Jawaban :

Garis beban akan berpotongan di



2. a). Dengan menggunakan karakteristik gambar 2.152b, tentukan  $D$  dan  $V$  untuk rangkaian  $R$  untuk rangkaian  $R$  gambar 2.153.

b). Ulangi bagian (a) dengan  $R=0,47$  kilo ohm!

<p class="MsoNormal"><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;,serif, font-size: 12pt; mso-bidi-language: AR; mso-fareast-font-family: SimSun;">&nbsp; &nbsp; c). Ulangi bagian (a) dengan  $R=0,68$  kilo ohm!</span><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;,serif, font-size: 12pt;"><o:p></o:p></span></p>

<p class="MsoNormal"><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;,serif, font-size: 12pt; mso-bidi-language: AR; mso-fareast-font-family: SimSun;">&nbsp; &nbsp; d). Apakah level  $V_{D}$  &nbsp; relatif mendekati  $0,7V$  dalam setiap kasus?</span><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;,serif, font-size: 12pt;"><o:p></o:p></span></p>

<p class="MsoNormal"><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;,serif, font-size: 12pt; mso-bidi-language: AR; mso-fareast-font-family: SimSun;">Bagaimana &nbsp; tingkat &nbsp;  $I_{D}$  &nbsp; yang dihasilkan?</span><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;,serif, font-size: 12pt;"><o:p></o:p></span></p>

<div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgTXCle-hVw6JiZrUXniYqBeinq\_gyWTe633QCTspMfFL6R16kUMyVSWRjfkuczRpe-nyrZDMk\_H5IVXDvQ-h2CSVTTFgHcA2gkyD3dQu-W0JMdSfunkJ1xY5Rodtj03DI9bCHfmQ74HjQtAPO6qyCnxnd0AldULQOAU2FZPC9TXGOIL0wNHtchu1hH/s203/13.png" style="margin-left: 1em; margin-right: 1em;"></a></div>

<p class="MsoNormal"><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;,serif, font-size: 12pt; mso-bidi-language: AR; mso-fareast-font-family: SimSun;">Jawaban :</span><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;,serif, font-size: 12pt;"><o:p></o:p></span></p>

<div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEh8n4092DMRkMBLIPW0IAFTM58GdAFkzUM1vp2j7bZKmeH\_3S516C74LnXRnBDyEm1KMFeTwYmumil08FH3OYV-WLjXK-jJN2maZdcH8h5\_gD9WpPwGsU90acs7ccKPJu8HqSdJWYbofY\_cnqfwgmeR1Yy0WwErgwxfl94xZNVEU6Hd5r10FXshX5Vg/s350/14.png" style="margin-left: 1em; margin-right: 1em;"></a></div>

<p class="MsoNormal"><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;,serif, font-size: 12pt; mso-bidi-language: AR; mso-fareast-font-family: SimSun;">Nilai yang dihasilkan dari  $V_{D}$  &nbsp;cukup dekat, sementara &nbsp;&nbsp;&nbsp;<math>I\_{D}</math> &nbsp;memanjang dari 7,8 mA hingga 25,3 mA.</span></p>

<p class="MsoNormal"><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;,serif, font-size: 12pt; mso-bidi-language: AR; mso-fareast-font-family: SimSun;">3. Tentukan nilai R untuk rangkaian gambar 2.153 yang akan menghasilkan arus dioda sebesar 10mA jika  $E=7V$ . Gunakan karakteristik gambar 2.152b untuk dioda !</span></p>

<p class="MsoNormal"><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;,serif, font-size: 12pt; mso-bidi-language: AR; mso-fareast-font-family: SimSun;">Jawaban :</span><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;,serif, font-size: 12pt;"><o:p></o:p></span></p>

<p class="MsoNormal"><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;,serif, font-size: 12pt; mso-bidi-language: AR; mso-fareast-font-family: SimSun;">Garis beban melalui <math>DQ</math> &nbsp;= 10 mA pada karakteristik dan <math>V\_{D}</math> &nbsp;= 7V akan memotong sumbu <math>I\_{D}</math> &nbsp;sebesar 11,3 mA.</span><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;,serif, font-size: 12pt;"><o:p></o:p></span></p>

[!\[\]\(e2376d476d06eb31946dc01a69a4403a\_img.jpg\)](https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgTe5AZOtojV4DiMTthoR5WuA5OaHEea-P-RWh0t4cNDdV5gKEJW_FfrQG_OVIK-me25iqN_qN335pu7QGIRHN_a41ND-XFYJNUVhreMs-sWJRnJMj3K5EBliohy2HxdpKvQGrA7uTy7sbUKDX5blJwTIZ-usS2vDp1E2sSYdvEcvvv9gC34SmqQD8B/s223/15.png)

</div><blockquote style="border: none; margin: 0px 0px 0px 40px; padding: 0px;"><div><p class="MsoNormal" style="text-align: left;"><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;,serif, font-size: 12pt;">&nbsp;</span><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEh5m4ws9QFtwOh7RxW-n0kpBFzYFKWn9iBF\_ZRn8Oy3PeQYac85j3tYvbDbrYhtleP2q67PuSMX8fJkqvJ1wSWtKGhZu9PxJSLbtBvFghBvMTwusWUsyzw25\_2b4KBfjSBEr2HZMO8qITP3l4rC08q-mN6B\_19eQuOJNsvkZ5sOmbosJdyWkXNkaSx/s376/16.png" style="margin-left: 1em; margin-right: 1em; text-align: center;"><img alt="A small, low-resolution image placeholder with a black border, likely a circuit diagram or graph. The image is centered and has a width of 376 pixels and a height of 31 pixels." data-bbox="115 845 883 910"/>  
src="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEh5m4ws9QFtwOh7RxW-n0kpBFzYFKWn9iBF\_ZRn8Oy3PeQYac85j3tYvbDbrYhtleP2q67PuSMX8fJkqvJ1wSWtK



background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; color: #333333; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">a).&nbsp;</span><span lang="EN-US" style="color: #333333; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><o:p></o:p></span></p>

<div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEhxYVgT-Kup71j7F8wWhQaJzWpy3hKn8qcoGhL6MuPMoteCc2EopoY0OhuTaGPluYuPYIjnQzTj0LAd5-ySXBgZ3Mhk7av9fkQk3c8aAv42YOPg5\_\_gxD35MalHoiE6Ke-gm6sgv2DeIC4efczBRFqAmAVO-7pn-yXEhFjhsSIfoDDY-FKSNQj38OXK/s320/2.png" style="margin-left: 1em; margin-right: 1em;"></a><span style="background-color: white; color: #333333; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">&nbsp;</span></div>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; color: #333333; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">Garis beban yang dihasilkan akan tampak seperti gambar grafik dibawah ini :</span><span lang="EN-US" style="color: #333333; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><o:p></o:p></span></p>

<div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEim2Nya48ZUMbCmwK1hhdqDhtEiR94kZ9ZqHVPuQJoxV4ttwNslRkVitWHEKg6QB4hZUtbBteaHOSw04bYEXLRsBo9dFe5ew4lzl7TCyHxyABjso4ByrbHmTu7CPxQ\_zuFG\_6PuKnleG2ck7yBgWnC0y1HZYi9OPIV\_YYAsbhcCtsVOSdLwwrvm9P3d/s342/3.png" style="margin-left: 1em; margin-right: 1em;"></a></div>

<p class="MsoNormal"><span lang="EN-US" style="background: white; color: #333333; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt; mso-bidi-language: AR; mso-fareast-font-family: times;">Perpotongan antara garis beban dan kurva yang mendefinisikan titik Q diperkirakan bernilai sebagai berikut :</span><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><o:p></o:p></span></p>

<div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEi3U1fDvErTtp7AoJr8080djquEUUsi47kgTGirkIbPO3lgqCm-itGhElm1gte2RqFgVtKymzgd6t9vb3SAF3TLNcKAaOJ3F

9P1gyxuRfsNsRoL815zbQaO1E5JT-y7ft\_ta2O-whRG562nXEsI\_qNqE9QC10W8HZ0AIHBW4iArEp6pJAnkNR35\_gltS/s141/4.png" style="margin-left: 1em; margin-right: 1em;"></a></div>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; color: #333333; font-family: &quot;Times New Roman&quot;, serif; font-size: 12pt;">b).&nbsp;</span><span lang="EN-US" style="color: #333333; font-family: &quot;Times New Roman&quot;, serif; font-size: 12pt;"><o:p></o:p></span></p>

<div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEjVZAVwIIWBffLAf0vymUT4-VsOA7GecuDNzTLCPcRHbcJuWRdNFTogcIVA-22Q1qaRUH\_E8v6o1VP\_V7\_I6GWh9V4xEG\_krNtDVEf-DgDwAEvOFhaJzTBgfHBoZcaf9UPwEBOSZghc4oFKb3kvwE5WfxOo3vBSO5WEWC8vQ89acuHNgzZtvyWAUNoi/s274/5.png" style="margin-left: 1em; margin-right: 1em;"></a></div><p align="center" class="MsoNormal" style="background: white; text-align: center;"><br /></p>

<p class="MsoNormal"><span lang="EN-US" style="background: white; color: #333333; font-family: &quot;Times New Roman&quot;, serif; font-size: 12pt; mso-bidi-language: AR; mso-fareast-font-family: times;">2.&nbsp;</span><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;, serif; font-size: 12pt;"><o:p></o:p></span></p>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; color: #333333; font-family: &quot;Times New Roman&quot;, serif; font-size: 12pt;">Jawaban :</span><span lang="EN-US" style="color: #333333; font-family: &quot;Times New Roman&quot;, serif; font-size: 12pt;"><o:p></o:p></span></p>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; color: #333333; font-family: &quot;Times New Roman&quot;, serif; font-size: 12pt;">Pada dioda semikonduktor silikon, perpotongan pada kurva yang dinyatakan oleh titik Q menghasilkan nilai



berupa :</span><span lang="EN-US" style="color: #333333; font-family: &quot;Times New Roman&quot;, serif; font-size: 12pt;"><o:p></o:p></span></p>

<div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgV8r9NzefQvtX2tullzQWu1mPf3pkmjKXOsqRxpHB2IF-RRR1BYnuM5r-oEeq4W9WadxqOdghAeto9vT8DGup3m6JEC-frQ6MTDVcJ6ciEJ9nnDMxnW1vekV1SM-U\_KsdI9MaZ8Kb1GiIK8Eu1u6OGuMO\_9AY8LDz7y9XSUA0qtulalIAAG0Gm8gQ/s128/7.png" style="margin-left: 1em; margin-right: 1em;"></a></div>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; color: #333333; font-family: &quot;Times New Roman&quot;, serif; font-size: 12pt;">Oleh karena itu, bentuk grafik analisa garis beban pun berubah menjadi seperti berikut :</span></p>

<div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEg2HFouvJFILTC4Ib7r9pY4BoRjivayNj8QD6szh7iduEEzfWlqO9li1GTYCtbr6CujW3bUvHZSeuSpmKxbJzpqjzCIOVj5f8MsHGwnl26NxHdp9I2OgGoqSOZ0yrUsfCpqGv-swXUBulObTKBAX\_QBWveEpCDI3qoopp5apeVUzGY42jAAf-tTcCsK/s363/8.png" style="margin-left: 1em; margin-right: 1em;"></a></div>

<p class="MsoNormal"><span lang="EN-US" style="background: white; color: #333333; font-family: &quot;Times New Roman&quot;, serif; font-size: 12pt; mso-bidi-language: AR; mso-fareast-font-family: times;">3. Ulangi contoh soal pertama dengan menggunakan model dioda ideal !</span><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;, serif; font-size: 12pt;"><o:p></o:p></span></p>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; color: #333333; font-family: &quot;Times New Roman&quot;, serif; font-size: 12pt;">Jawaban :</span><span lang="EN-US" style="color: #333333; font-family: &quot;Times New Roman&quot;, serif; font-size: 12pt; mso-fareast-font-family: times;"><o:p></o:p></span></p>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial;



titik Q biasanya .....&nbsp;</span><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><o:p></o:p></span></p>

<p class="MsoNormal"><span lang="EN-US" style="background: white; color: #222222; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt; mso-bidi-language: AR; mso-fareast-font-family: times;">&nbsp; &nbsp; &nbsp; &nbsp;A. Kritis&nbsp; &nbsp; &nbsp; &nbsp;&nbsp; &nbsp;</span><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><br /></span><span lang="EN-US" style="background: white; color: #222222; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt; mso-bidi-language: AR; mso-fareast-font-family: times;">&nbsp; &nbsp; &nbsp; &nbsp;B. Tidak kritis&nbsp; &nbsp; &nbsp; &nbsp;&nbsp; &nbsp;&nbsp;</span><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><br /></span><span lang="EN-US" style="background: white; color: #222222; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt; mso-bidi-language: AR; mso-fareast-font-family: times;">&nbsp; &nbsp; &nbsp; &nbsp;C. Ditengah garis beban AC</span><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><br /></span><span lang="EN-US" style="background: white; color: #222222; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt; mso-bidi-language: AR; mso-fareast-font-family: times;">&nbsp; &nbsp; &nbsp; &nbsp;D. Ditengah garis beban DC</span></p>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; color: #222222; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><br />

Jawaban: B. Tidak kritis</span></p><p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; color: #222222; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">2. D</span><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; color: #222222; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">ioda semikonduktor digunakan untuk..</span></p>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; color: #222222; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">&nbsp; &nbsp; &nbsp; A.

Menghantarkan arus listrik ke satu arah saja dan menghambat arus pada arah berlawanan</span><span lang="EN-US" style="color: #222222; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><o:p></o:p></span></p>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; color: #222222; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">&nbsp; &nbsp; B.

Menghantarkan arus listrik kedua arah tanpa mengha, bat laju arus</span><span lang="EN-US" style="color: #222222; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><o:p></o:p></span></p>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; color: #222222; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">&nbsp; &nbsp; C. Memblokir

arus listrik yang datang</span><span lang="EN-US" style="color: #222222; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><o:p></o:p></span></p>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; color: #222222; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">&nbsp; &nbsp; D. Mengubah

arus searah menjadi arus bolak balik</span><span lang="EN-US" style="color: #222222; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><o:p></o:p></span></p>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; color: #222222; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">&nbsp; &nbsp; E.

Menghambat arus dari arah yang berlawanan</span></p>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; color: #222222; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">Jawaban :

A.&nbsp;&nbsp;&nbsp;Menghantarkan arus listrik ke satu arah saja dan menghambat arus pada arah berlawanan</span><span lang="EN-US" style="color: #222222; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><o:p></o:p></span></p>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">Dioda semikonduktor

merupakan komponen yang menghantarkan arus listrik satu arah dan menghambat arus dari arah sebaliknya. Dioda merupakan penyearah yang paling sederhana, yaitu

penyearah setengah gelombang.</span></p>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">3. Kurva karakteristik dioda semikonduktor merupakan sebuah kurva yang..</span><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><o:p></o:p></span></p>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">&nbsp; &nbsp; A. Kurva yang menampilkan hubungan antara besar tegangan dengan hambatan</span><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><o:p></o:p></span></p>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">&nbsp; &nbsp; B. Kurva yang menampilkan hubungan antara besar daya dioda dengan arus yang mengalir</span><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><o:p></o:p></span></p>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">&nbsp; &nbsp; C.&nbsp;&nbsp;Kurva yang menampilkan hubungan antara besar arus yang mengalir pada dioda dengan hambatan</span><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><o:p></o:p></span></p>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">&nbsp; &nbsp; D.&nbsp;&nbsp;Kurva yang menampilkan hubungan antara besar arus yang mengalir pada dioda dengan tegangan</span><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><o:p></o:p></span></p>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">&nbsp; &nbsp; E. Kurva yang memperlihatkan garis beban dioda</span><span style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">&nbsp;</span></p>

<p class="MsoNormal" style="background: white;"><span lang="EN-US" style="background-attachment: initial; background-clip: initial; background-image: initial; background-origin: initial; background-position: initial; background-repeat: initial; background-size: initial; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">Jawaban :&nbsp;D.&nbsp;Kurva yang menampilkan hubungan antara besar arus yang mengalir pada dioda dengan tegangan</span><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;"><o:p></o:p></span></p><div><br /></div>

<a name="prinsip1">

</a><b>4. Prinsip Kerja dan Rangkaian</b>&nbsp;<a

href="#tujuan">[back]</a></div><div><p class="MsoListParagraph" style="margin-left: 0cm; mso-add-space: auto; text-align: justify; text-justify: inter-ideograph;"><span lang="EN-US" style="background: white; font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt;">&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp;</span><span lang="EN-US" style="font-family: &quot;Times New Roman&quot;; serif; font-size: 12pt; mso-fareast-font-family: SimSun;">Garis beban dapat dibangun apabila kita mengetahui arus beban pada rangkaian rangkaian dan tegangan operasinya.Pada simulasi kali ini,baterai sebagai sumber tegangan.Tegangan akan dialirkan menuju D1 lalu dari D1 langsung diteruskan menuju R1.R1 disini berfungsi sebagai pembagi tegangan. Prinsip kerja Load Line Analysis adalah pada saat tegangan baterai memiliki nilai yang besar maka akan menghasilkan arus dan hambatan yang besar pula<o:p></o:p></span></p><div><br /></div>

<a name="gambar1">

</a><b>5. Gambar Rangkaian&nbsp;</b>&nbsp;<a

href="#tujuan">[back]</a></div><div><br /></div><div>a). Tampilan rangkaian dioda sederhana</div><div><br /></div><div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEhZOyDj9UoKOs0m-rBFV2hwNk9dr5unsBA6tlBPKGd-pJhWHPPyf-5pesg4d-MJMrzSvTQ-sKtXMoNjCxHd\_FotZBRpA\_GHCrPP19u4qNaVakxRAD1hZE0rQHYWYyvyUd4ZF3PMXS7K-qDT626OE-oCHtEbLZ44ocmVJSHox\_sa2Z2vlnEhelFFgVkAkg/s681/Gambar10.png" style="margin-left: 1em; margin-right: 1em;"></a></div><div class="separator" style="clear: both; text-align: center;">

2.11 Rangkaian dioda sederhana</div><div class="separator" style="clear: both; text-align: center;"><br /></div><div class="separator" style="clear: both; text-align: left;">b). Tampilan rangkaian dioda dengan besaran pada komponennya</div><div class="separator" style="clear: both;

text-align: left;"><br /></div><div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEg2ZJ8OnHU8hne8uB4qjlQRgYO4CNPnEMYwFdcxqbXoBZiShO8ffS2RhetrLfbSHjmAKwsqg4EBoV88lkjDkOleJtBRu03WQHr7d7ebFMZo1nIFHncZyMRw9fZ7gplBGZ11x2ZmWtDt6zztXSVhwZMK3U3web-m\_Lk2aOn3rztRO5Bs1rwmV0WiylooEw/s483/Gambar11.png" style="margin-left: 1em; margin-right: 1em;"></a></div><div class="separator" style="clear: both; text-align: center;">2.12 Rangkaian dioda example 2.1</div><br /><div class="separator" style="clear: both; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEhs8tuHdcBcn-sI0J8i4dAkpX6vsRS1hBDWXMyc6Rhdj1KAEqqcEzcWVnkdc3bPMLNZ0YLjFbpQUdpnSqK5Q2sRuVLONzwm5\_LkzyKs1tRt8pagZa20XrrZGK8OJfw686n0AuFfvk-X8xi7GPwPIXkei85DpAclmDN2DxEeluqz9V4LLyQHK8xr8d8HKw/s747/Gambar12.png" style="margin-left: 1em; margin-right: 1em;"></a></div><div class="separator" style="clear: both; text-align: center;">2.13 Rangkaian example 2.2</div><div class="separator" style="clear: both; text-align: left;"><br /></div><div style="text-align: center;"><br /></div><a name="video1">

</a><b>6. Video</b>&nbsp;<a href="#tujuan">[back]</a></div><div><br /><div style="text-align: center;"><br /></div><div><div><a name="link1">

</a><b>7. Link Download</b>&nbsp;<a href="#tujuan">[back]</a></div><div>HTML</div><div><span style="background-color: white;">Data Sheet resistor&nbsp;</span><a href="https://drive.google.com/file/d/1IPypPyJcywECW--UFouQJt6N7tsJfhq/view?usp=share\_link" style="background-color: white;" target="\_blank">[klik disini]</a></div><div><span style="background-color: white;">Data Sheet Baterai&nbsp;</span><a href="https://drive.google.com/file/d/1UeMNRJNcxVFgVpFMfrEIf-F\_F2Tu0bdj/view?usp=share\_link" style="background-color: white;" target="\_blank">[klik disini]</a></div><div><span style="background-color: white;">Data Sheet Diode&nbsp;</span><a href="https://drive.google.com/file/d/1-ltjV7jZuOaH2bscV-eJbgC5Ha-6ZXnL/view?usp=share\_link" style="background-color: white;" target="\_blank">[klik disini]</a></div><div>Video simulasi pembuatan rangkaian dioda&nbsp;<a href="#" target="\_blank">[klik disini]</a></div><div><br /></div></div></div></div></div><a name="akhir">

</a><a href="#awal">[Menuju Awal]</a><div style="text-align: center;"><br /></div><div style="text-align: center;"></div>