Dependence of spike voltage on gate resistance by the effect of snubber and CGE

Measured module: 4MBI400VG-060R-50
Measured condition: Vdc=200V, Ic=400A, Vge=+/-15V, Tj=125°C, Rg= variable

Rg Vs VCEP (A mode)

Rg Vs VCEP (B mode)

Dependence of spike voltage on gate resistance by the effect of snubber

Fuji Electric
Innovating Energy Technology
Measured module: 4MBI400VG-060R-50
Measured condition: Vdc=200V, Ic=400A, Vge=+/−15V, Tj=125°C, Rg= variable

![Rg Vs VCEP (A mode)](image1)

![Rg Vs VCEP (B mode)](image2)

Dependence of spike voltage on gate resistance by the effect of CGE
Dependence of spike voltage on gate resistance by the effect of snubber and CGE
Definitions of switching mode

<table>
<thead>
<tr>
<th>SW mode</th>
<th>Load L</th>
<th>T1</th>
<th>T2</th>
<th>T3</th>
<th>T4</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>M-U</td>
<td>SW</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>M-U</td>
<td>OFF</td>
<td>SW</td>
<td>ON</td>
<td>OFF</td>
</tr>
<tr>
<td>B</td>
<td>P-U</td>
<td>OFF</td>
<td>OFF</td>
<td>SW</td>
<td>ON</td>
</tr>
<tr>
<td></td>
<td>U-N</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
<td>SW</td>
</tr>
</tbody>
</table>

SW: Connect to drive circuit and input gate signal
ON: Bias voltage of gate +15V
OFF: Reverse bias voltage of gate -15V
Vcc2=Vcc1/2
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