

IGBT, 制动-斩波器 / IGBT, Brake-Chopper
最大额定值 / Maximum Rated Values

初步数据
Preliminary Data

| | | | | |
|--|--|----------------------------|--------------|--------|
| 集电极 - 发射极电压 Collector-emitter voltage | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = -25^{\circ}\text{C}$ | V_{CES} | 3300 3300 | V |
| 连续集电极直流电流 Continuous DC collector current | $T_C = 80^{\circ}\text{C}, T_{vj\text{max}} = 150^{\circ}\text{C}$ $T_C = 25^{\circ}\text{C}, T_{vj\text{max}} = 150^{\circ}\text{C}$ | $I_{C\text{nom}}$ I_C | 800 1300 | A A |
| 集电极重复峰值电流 Repetitive peak collector current | $t_P = 1\text{ ms}$ | I_{CRM} | 1600 | A |
| 总功率损耗 Total power dissipation | $T_C = 25^{\circ}\text{C}, T_{vj\text{max}} = 150^{\circ}\text{C}$ | P_{tot} | 9,60 | kW |
| 栅极 - 发射极峰值电压 Gate-emitter peak voltage | | V_{GES} | +/-20 | V |

特征值 / Characteristic Values

| | | | min. | typ. | max. | | |
|---|--|---|--------------------|--------------|--------------|--------|--------------------------------|
| 集电极 - 发射极饱和电压 Collector-emitter saturation voltage | $I_C = 800\text{ A}, V_{GE} = 15\text{ V}$ $I_C = 800\text{ A}, V_{GE} = 15\text{ V}$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ | $V_{CE\text{sat}}$ | 3,40 4,30 | 4,25 5,00 | V V | |
| 栅极阈值电压 Gate threshold voltage | $I_C = 80,0\text{ mA}, V_{CE} = V_{GE}, T_{vj} = 25^{\circ}\text{C}$ | | $V_{G\text{Eth}}$ | 4,2 | 5,1 | 6,0 | V |
| 栅极电荷 Gate charge | $V_{GE} = -15\text{ V} \dots +15\text{ V}, V_{CE} = 1800\text{ V}$ | | Q_G | 15,0 | | | μC |
| 内部栅极电阻 Internal gate resistor | $T_{vj} = 25^{\circ}\text{C}$ | | $R_{G\text{int}}$ | 0,63 | | | Ω |
| 输入电容 Input capacitance | $f = 1\text{ MHz}, T_{vj} = 25^{\circ}\text{C}, V_{CE} = 25\text{ V}, V_{GE} = 0\text{ V}$ | | C_{ies} | 100 | | | nF |
| 反向传输电容 Reverse transfer capacitance | $f = 1\text{ MHz}, T_{vj} = 25^{\circ}\text{C}, V_{CE} = 25\text{ V}, V_{GE} = 0\text{ V}$ | | C_{res} | 5,40 | | | nF |
| 集电极-发射极截止电流 Collector-emitter cut-off current | $V_{CE} = 3300\text{ V}, V_{GE} = 0\text{ V}, T_{vj} = 25^{\circ}\text{C}$ | | I_{CES} | | 5,0 | | mA |
| 栅极-发射极漏电流 Gate-emitter leakage current | $V_{CE} = 0\text{ V}, V_{GE} = 20\text{ V}, T_{vj} = 25^{\circ}\text{C}$ | | I_{GES} | | 400 | | nA |
| 开通延迟时间(电感负载) Turn-on delay time, inductive load | $I_C = 800\text{ A}, V_{CE} = 1800\text{ V}$ $V_{GE} = \pm 15\text{ V}$ $R_{Gon} = 1,4\ \Omega, C_{GE} = 150\text{ nF}$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ | $t_{d\text{on}}$ | 0,28 0,28 | | | μs μs |
| 上升时间(电感负载) Rise time, inductive load | $I_C = 800\text{ A}, V_{CE} = 1800\text{ V}$ $V_{GE} = \pm 15\text{ V}$ $R_{Gon} = 1,4\ \Omega, C_{GE} = 150\text{ nF}$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ | t_r | 0,18 0,20 | | | μs μs |
| 关断延迟时间(电感负载) Turn-off delay time, inductive load | $I_C = 800\text{ A}, V_{CE} = 1800\text{ V}$ $V_{GE} = \pm 15\text{ V}$ $R_{Goff} = 1,8\ \Omega, C_{GE} = 150\text{ nF}$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ | $t_{d\text{off}}$ | 1,55 1,70 | | | μs μs |
| 下降时间(电感负载) Fall time, inductive load | $I_C = 800\text{ A}, V_{CE} = 1800\text{ V}$ $V_{GE} = \pm 15\text{ V}$ $R_{Goff} = 1,8\ \Omega, C_{GE} = 150\text{ nF}$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ | t_f | 0,20 0,20 | | | μs μs |
| 开通损耗能量(每脉冲) Turn-on energy loss per pulse | $I_C = 800\text{ A}, V_{CE} = 1800\text{ V}, L_S = 40\text{ nH}$ $V_{GE} = \pm 15\text{ V}$ $R_{Gon} = 1,4\ \Omega, C_{GE} = 150\text{ nF}$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ | E_{on} | 930 1450 | | | mJ mJ |
| 关断损耗能量(每脉冲) Turn-off energy loss per pulse | $I_C = 800\text{ A}, V_{CE} = 1800\text{ V}, L_S = 40\text{ nH}$ $V_{GE} = \pm 15\text{ V}$ $R_{Goff} = 1,8\ \Omega, C_{GE} = 150\text{ nF}$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ | E_{off} | 870 1000 | | | mJ mJ |
| 短路数据 SC data | $V_{GE} \leq 15\text{ V}, V_{CC} = 2500\text{ V}$ $V_{CE\text{max}} = V_{CES} - L_{SCE} \cdot di/dt$ $t_P \leq 10\ \mu\text{s}, T_{vj} = 125^{\circ}\text{C}$ | | I_{SC} | 4000 | | | A |
| 结 - 外壳热阻 Thermal resistance, junction to case | 每个 IGBT / per IGBT | | R_{thJC} | | 13,0 | | K/kW |
| 外壳 - 散热器热阻 Thermal resistance, case to heatsink | 每个 IGBT / per IGBT $\lambda_{\text{Paste}} = 1\text{ W}/(\text{m}\cdot\text{K})$ / $\lambda_{\text{grease}} = 1\text{ W}/(\text{m}\cdot\text{K})$ | | R_{thCH} | 8,00 | | | K/kW |
| 在开关状态下温度 Temperature under switching conditions | | | $T_{vj\text{op}}$ | -40 | 125 | | $^{\circ}\text{C}$ |

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初步数据
Preliminary Data

二极管，制动-斩波器 / Diode, Brake-Chopper
最大额定值 / Maximum Rated Values

| | | | | |
|---|--|----------------------|--------------|-----------------------|
| 反向重复峰值电压 Repetitive peak reverse voltage | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = -25^{\circ}\text{C}$ | V_{RRM} | 3300 3300 | V |
| 连续正向直流电流 Continuous DC forward current | | I_F | 800 | A |
| 正向重复峰值电流 Repetitive peak forward current | $t_P = 1 \text{ ms}$ | I_{FRM} | 1600 | A |
| I^2t -值 I^2t - value | $V_R = 0 \text{ V}$, $t_P = 10 \text{ ms}$, $T_{vj} = 125^{\circ}\text{C}$ | I^2t | 220 | kA^2s |
| 最大损耗功率 Maximum power dissipation | $T_{vj} = 125^{\circ}\text{C}$ | P_{RQM} | 1600 | kW |
| 最小开通时间 Minimum turn-on time | | $t_{on \text{ min}}$ | 10,0 | μs |

特征值 / Characteristic Values

| | | | min. | typ. | max. | |
|--|--|---|---------------------|--------------|--------------|--------------------------------|
| 正向电压 Forward voltage | $I_F = 800 \text{ A}$, $V_{GE} = 0 \text{ V}$ $I_F = 800 \text{ A}$, $V_{GE} = 0 \text{ V}$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ | V_F | 2,80 2,80 | 3,50 3,50 | V V |
| 反向恢复峰值电流 Peak reverse recovery current | $I_F = 800 \text{ A}$, $-di_F/dt = 4500 \text{ A}/\mu\text{s}$ ($T_{vj}=125^{\circ}\text{C}$) $V_R = 1800 \text{ V}$ $V_{GE} = -15 \text{ V}$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ | I_{RM} | 1100 1300 | | A A |
| 恢复电荷 Recovered charge | $I_F = 800 \text{ A}$, $-di_F/dt = 4500 \text{ A}/\mu\text{s}$ ($T_{vj}=125^{\circ}\text{C}$) $V_R = 1800 \text{ V}$ $V_{GE} = -15 \text{ V}$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ | Q_r | 500 900 | | μC μC |
| 反向恢复损耗 (每脉冲) Reverse recovery energy | $I_F = 800 \text{ A}$, $-di_F/dt = 4500 \text{ A}/\mu\text{s}$ ($T_{vj}=125^{\circ}\text{C}$) $V_R = 1800 \text{ V}$ $V_{GE} = -15 \text{ V}$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ | E_{rec} | 490 1150 | | mJ mJ |
| 结 - 外壳热阻 Thermal resistance, junction to case | 每个二极管 / per diode | | R_{thJC} | | 26,0 | K/kW |
| 外壳 - 散热器热阻 Thermal resistance, case to heatsink | 每个二极管 / per diode $\lambda_{\text{Paste}} = 1 \text{ W}/(\text{m}\cdot\text{K})$ / $\lambda_{\text{grease}} = 1 \text{ W}/(\text{m}\cdot\text{K})$ | | R_{thCH} | 16,0 | | K/kW |
| 在开关状态下温度 Temperature under switching conditions | | | $T_{vj \text{ op}}$ | -40 | 125 | $^{\circ}\text{C}$ |

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反向二极管 / Diode, Reverse
最大额定值 / Maximum Rated Values

| | | | | |
|--|--|----------------------|--------------|-------------------|
| 反向重复峰值电压 Repetitive peak reverse voltage | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = -25^{\circ}\text{C}$ | V_{RRM} | 3300 3300 | V |
| 连续正向直流电流 Continuous DC forward current | | I_F | 800 | A |
| 正向重复峰值电流 Repetitive peak forward current | $t_P = 1 \text{ ms}$ | I_{FRM} | 1600 | A |
| I ² t-值 I ² t - value | $V_R = 0 \text{ V}, t_P = 10 \text{ ms}, T_{vj} = 125^{\circ}\text{C}$ | I^2t | 220 | kA ² s |
| 最大损耗功率 Maximum power dissipation | $T_{vj} = 125^{\circ}\text{C}$ | P_{RQM} | 1600 | kW |
| 最小开通时间 Minimum turn-on time | | $t_{on \text{ min}}$ | 10,0 | μs |

特征值 / Characteristic Values

| | | | min. | typ. | max. | |
|--|---|---|---------------------|--------------|--------------|--------------------------------|
| 正向电压 Forward voltage | $I_F = 800 \text{ A}, V_{GE} = 0 \text{ V}$ $I_F = 800 \text{ A}, V_{GE} = 0 \text{ V}$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ | V_F | 2,80 2,80 | 3,50 3,50 | V V |
| 反向恢复峰值电流 Peak reverse recovery current | $I_F = 800 \text{ A}, -di_F/dt = 4500 \text{ A}/\mu\text{s} (T_{vj}=125^{\circ}\text{C})$ $V_R = 1800 \text{ V}$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ | I_{RM} | 1100 1300 | | A A |
| 恢复电荷 Recovered charge | $I_F = 800 \text{ A}, -di_F/dt = 4500 \text{ A}/\mu\text{s} (T_{vj}=125^{\circ}\text{C})$ $V_R = 1800 \text{ V}$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ | Q_r | 500 900 | | μC μC |
| 反向恢复损耗 (每脉冲) Reverse recovery energy | $I_F = 800 \text{ A}, -di_F/dt = 4500 \text{ A}/\mu\text{s} (T_{vj}=125^{\circ}\text{C})$ $V_R = 1800 \text{ V}$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ | E_{rec} | 490 1150 | | mJ mJ |
| 结 - 外壳热阻 Thermal resistance, junction to case | 每个二极管 / per diode | | R_{thJC} | | 26,0 | K/kW |
| 外壳 - 散热器热阻 Thermal resistance, case to heatsink | 每个二极管 / per diode $\lambda_{\text{Paste}} = 1 \text{ W}/(\text{m}\cdot\text{K}) / \lambda_{\text{grease}} = 1 \text{ W}/(\text{m}\cdot\text{K})$ | | R_{thCH} | 16,0 | | K/kW |
| 在开关状态下温度 Temperature under switching conditions | | | $T_{vj \text{ op}}$ | -40 | 125 | $^{\circ}\text{C}$ |

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模块 / Module

| | | | | | |
|--|--|--|--------------|--------------|--------------|
| 绝缘测试电压 Isolation test voltage | RMS, f = 50 Hz, t = 1 min. | V _{ISOL} | 6,0 | | kV |
| 局部放电停止电压 Partial discharge extinction voltage | RMS, f = 50 Hz, Q _{PD} ≤ 10 pC (acc. to IEC 1287) | V _{ISOL} | 2,6 | | kV |
| DC 稳定性 DC stability | T _{vj} = 25°C, 100 fit | V _{CE D} | 1800 | | V |
| 模块基板材料 Material of module baseplate | | | AISIC | | |
| 内部绝缘 Internal isolation | 基本绝缘 (class 1, IEC 61140) basic insulation (class 1, IEC 61140) | | AIN | | |
| 爬电距离 Creepage distance | 端子- 散热片 / terminal to heatsink 端子- 端子 / terminal to terminal | | 32,2 32,2 | | mm |
| 电气间隙 Clearance | 端子- 散热片 / terminal to heatsink 端子- 端子 / terminal to terminal | | 19,1 19,1 | | mm |
| 相对电痕指数 Comperative tracking index | | CTI | > 400 | | |
| | | | min. | typ. | max. |
| 杂散电感,模块 Stray inductance module | | L _{sCE} | | 12 | nH |
| 模块引线电阻,端子-芯片 Module lead resistance, terminals - chip | T _c = 25°C, 每个开关 / per switch | R _{CC'+EE'} R _{AA'+CC'} | | 0,19 0,34 | mΩ |
| 储存温度 Storage temperature | | T _{stg} | -40 | | 125 °C |
| 模块安装的安装扭矩 Mounting torque for modul mounting | 螺丝 M6 根据相应的应用手册进行安装 Screw M6 - Mounting according to valid application note | M | 4,25 | - | 5,75 Nm |
| 端子联接扭矩 Terminal connection torque | 螺丝 M4 根据相应的应用手册进行安装 Screw M4 - Mounting according to valid application note 螺丝 M8 根据相应的应用手册进行安装 Screw M8 - Mounting according to valid application note | M | 1,8 8,0 | - | 2,1 10 Nm |
| 重量 Weight | | G | | 1500 | g |

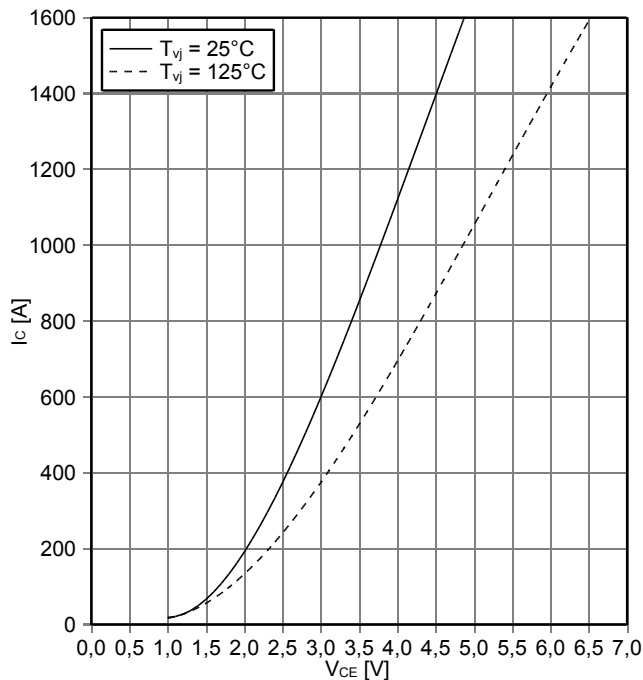
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初步数据
Preliminary Data

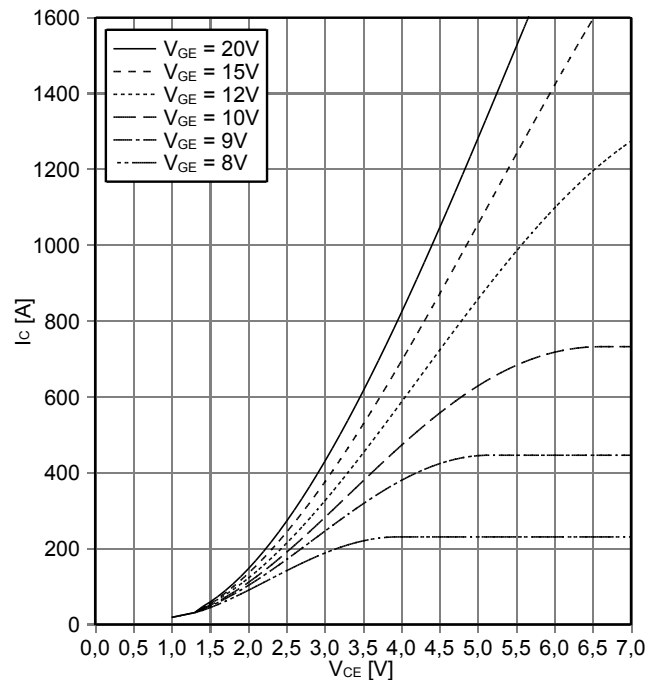
输出特性 IGBT, 制动-斩波器 (典型)
output characteristic IGBT, Brake-Chopper (typical)

$I_C = f(V_{CE})$
 $V_{GE} = 15\text{ V}$



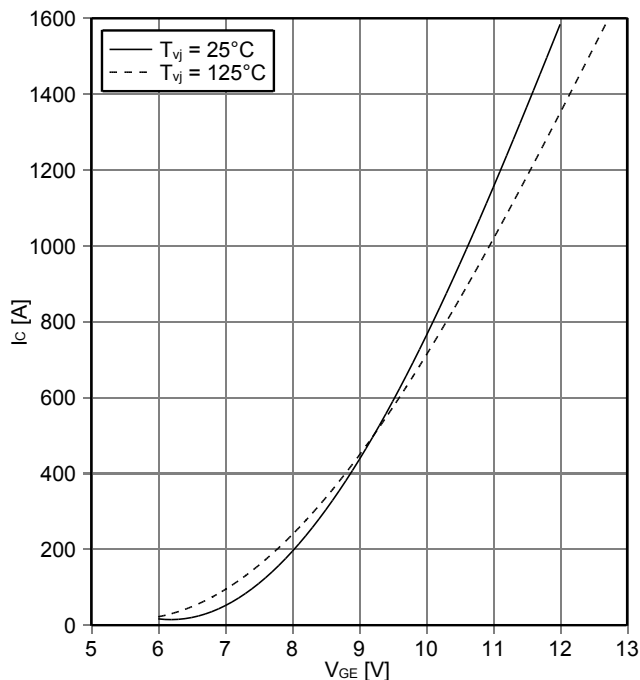
输出特性 IGBT, 制动-斩波器 (典型)
output characteristic IGBT, Brake-Chopper (typical)

$I_C = f(V_{CE})$
 $T_{vj} = 125^\circ\text{C}$



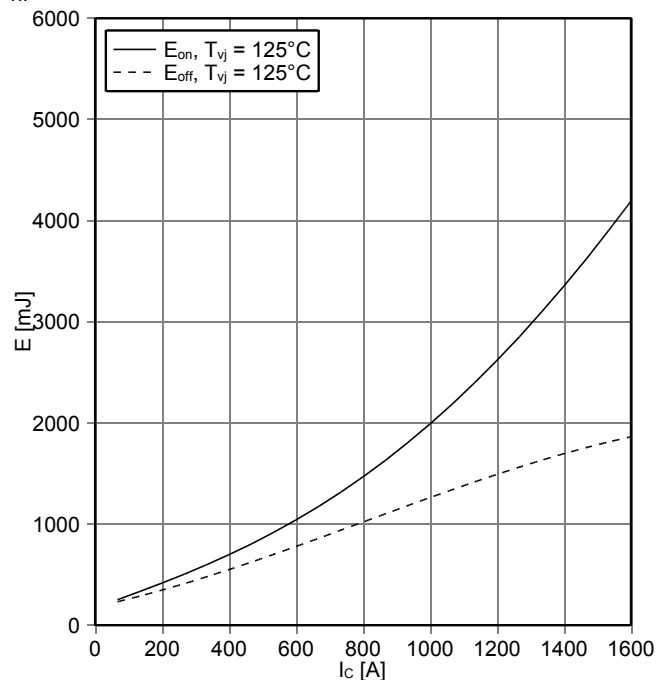
传输特性 IGBT, 制动-斩波器 (典型)
transfer characteristic IGBT, Brake-Chopper (typical)

$I_C = f(V_{GE})$
 $V_{CE} = 20\text{ V}$



开关损耗 IGBT, 制动-斩波器 (典型)
switching losses IGBT, Brake-Chopper (typical)

$E_{on} = f(I_C)$, $E_{off} = f(I_C)$
 $V_{GE} = \pm 15\text{ V}$, $R_{Gon} = 1.4\ \Omega$, $R_{Goff} = 1.8\ \Omega$, $V_{CE} = 1800\text{ V}$, $C_{GE} = 150\text{ nF}$

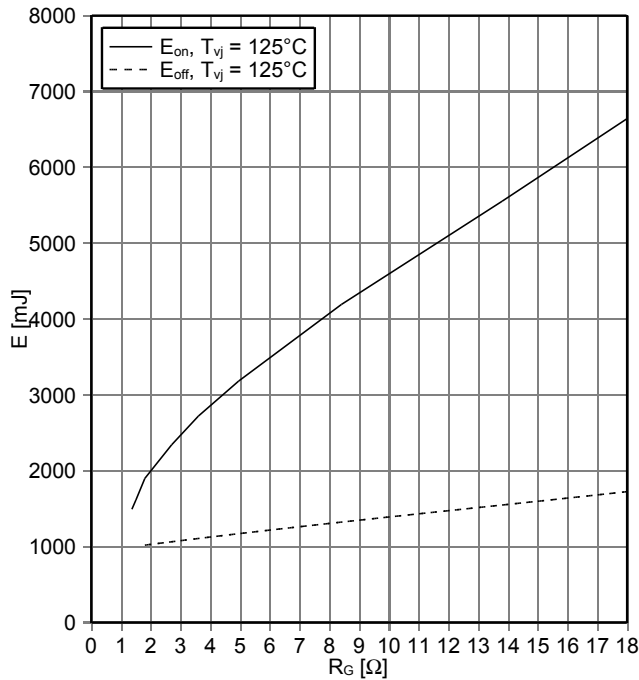


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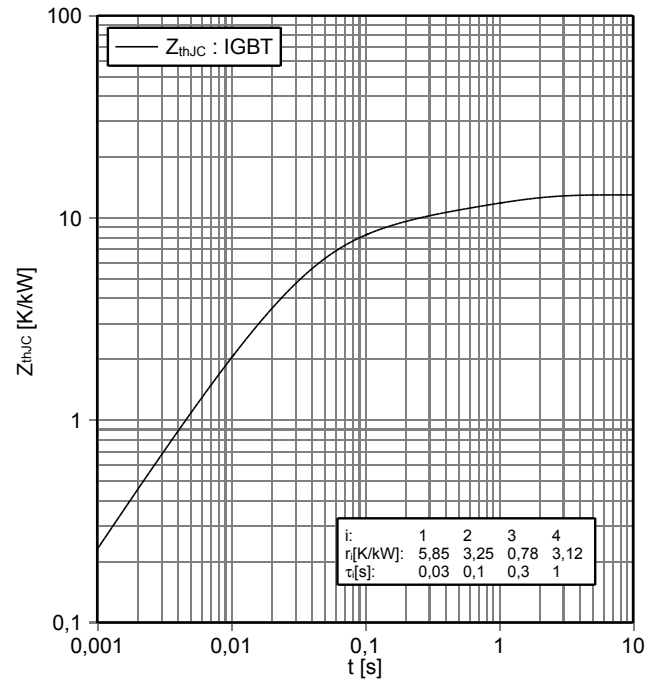
开关损耗 IGBT, 制动-斩波器 (典型)
switching losses IGBT, Brake-Chopper (typical)

$E_{on} = f(R_G)$, $E_{off} = f(R_G)$
 $V_{GE} = \pm 15\text{ V}$, $I_C = 800\text{ A}$, $V_{CE} = 1800\text{ V}$, $C_{GE} = 150\text{ nF}$



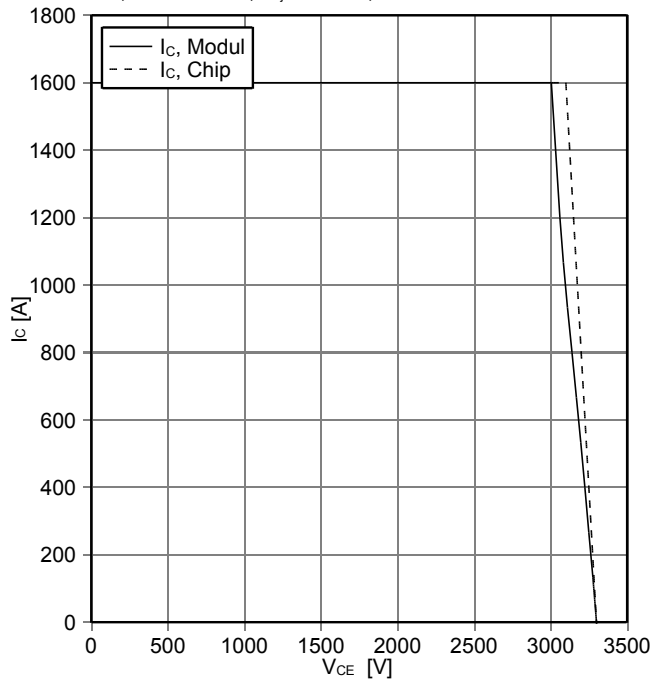
瞬态热阻抗 IGBT, 制动-斩波器
transient thermal impedance IGBT, Brake-Chopper

$Z_{thJC} = f(t)$



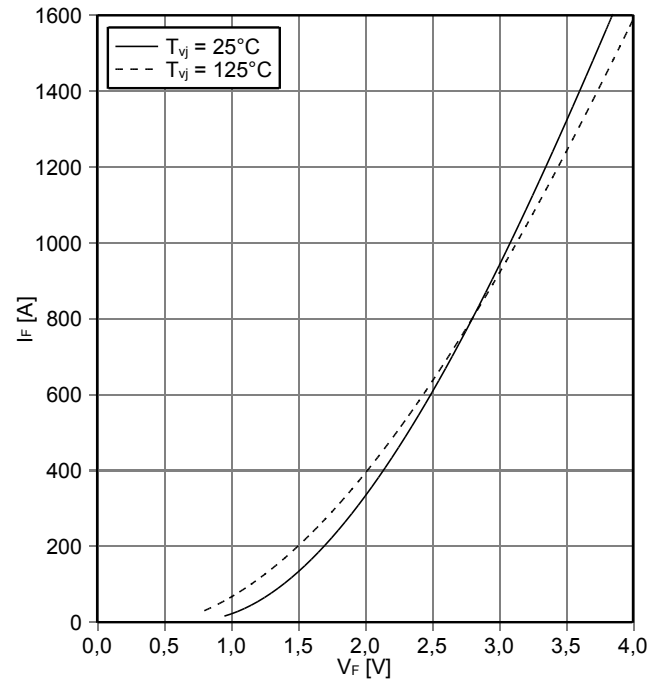
反偏安全工作区 IGBT, 制动-斩波器 (RBSOA)
reverse bias safe operating area IGBT, Brake-Chopper (RBSOA)

$I_C = f(V_{CE})$
 $V_{GE} = \pm 15\text{ V}$, $R_{Goff} = 1.8\ \Omega$, $T_{vj} = 125^\circ\text{C}$, $C_{GE} = 150\text{ nF}$



正向偏压特性 二极管, 制动-斩波器 (典型)
forward characteristic of Diode, Brake-Chopper (typical)

$I_F = f(V_F)$

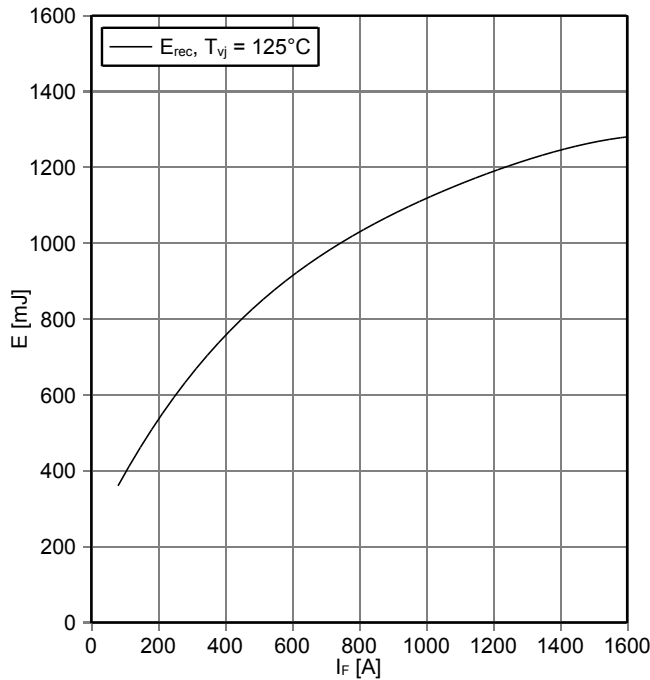


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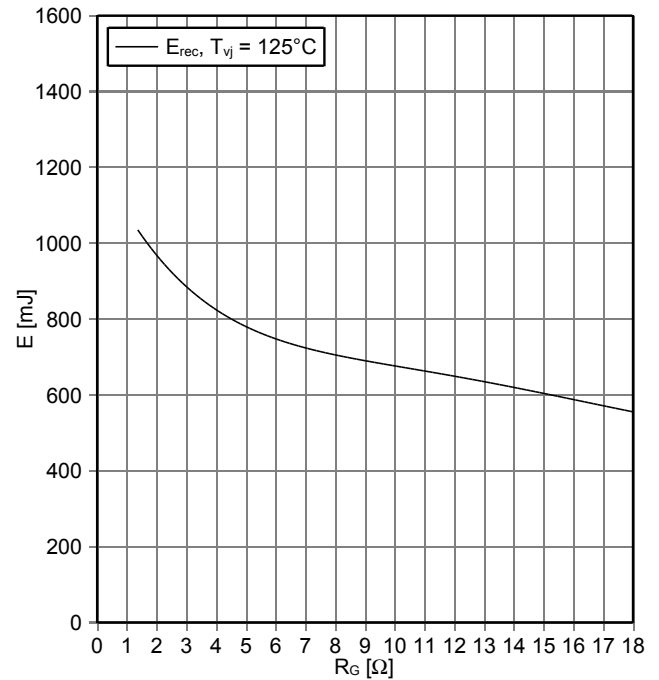
开关损耗 二极管, 制动-斩波器 (典型)
switching losses Diode, Brake-Chopper (typical)

$E_{rec} = f(I_F)$
 $R_{Gon} = 1.4 \Omega, V_{CE} = 1800 V$



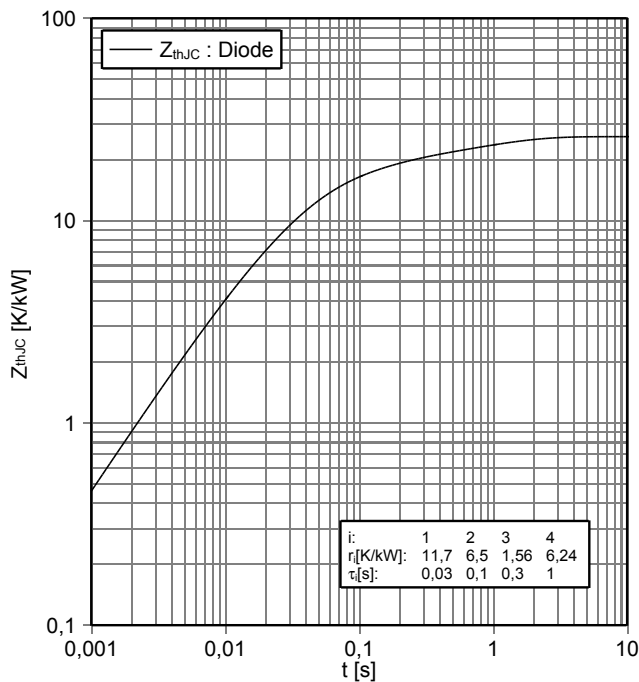
开关损耗 二极管, 制动-斩波器 (典型)
switching losses Diode, Brake-Chopper (typical)

$E_{rec} = f(R_G)$
 $I_F = 800 A, V_{CE} = 1800 V$



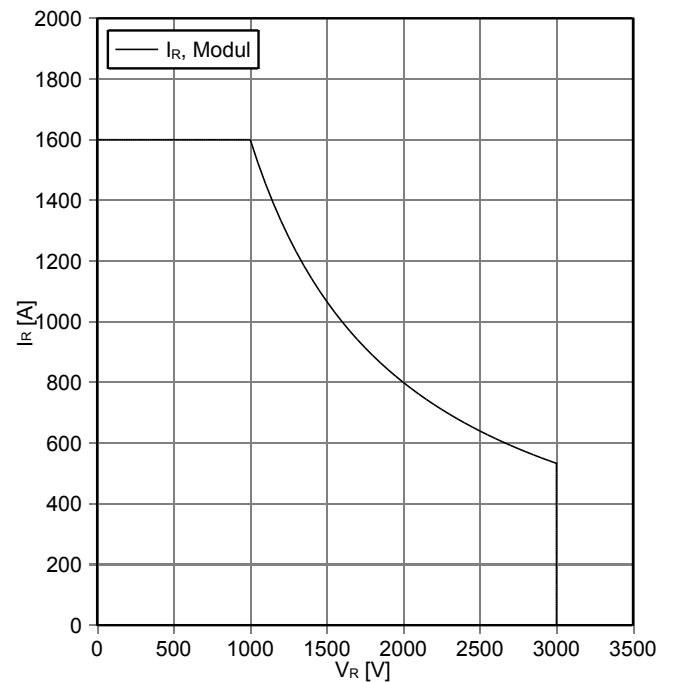
瞬态热阻抗 二极管, 制动-斩波器
transient thermal impedance Diode, Brake-Chopper

$Z_{thJC} = f(t)$



安全工作区 二极管, 制动-斩波器 (SOA)
safe operation area Diode, Brake-Chopper (SOA)

$I_R = f(V_R)$
 $T_{vj} = 125^\circ C$

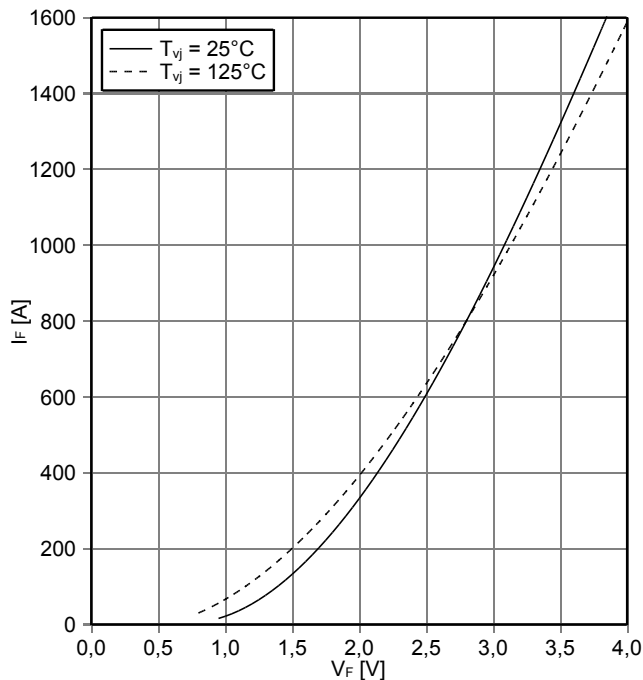


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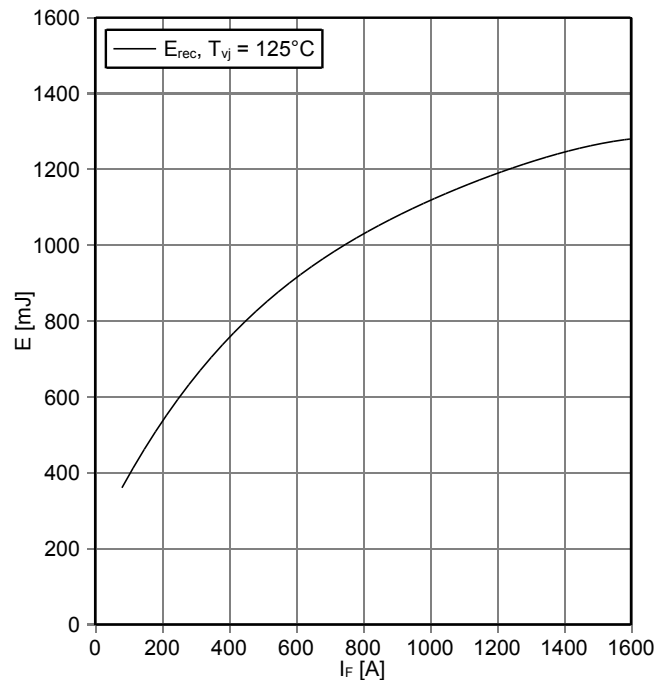


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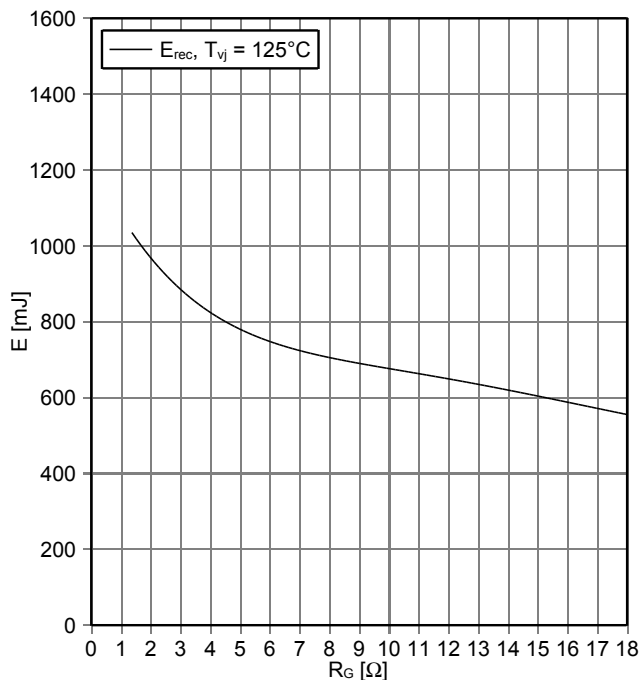
正向偏压特性 反向二极管 (典型)
forward characteristic of Diode, Reverse (typical)
 $I_F = f(V_F)$



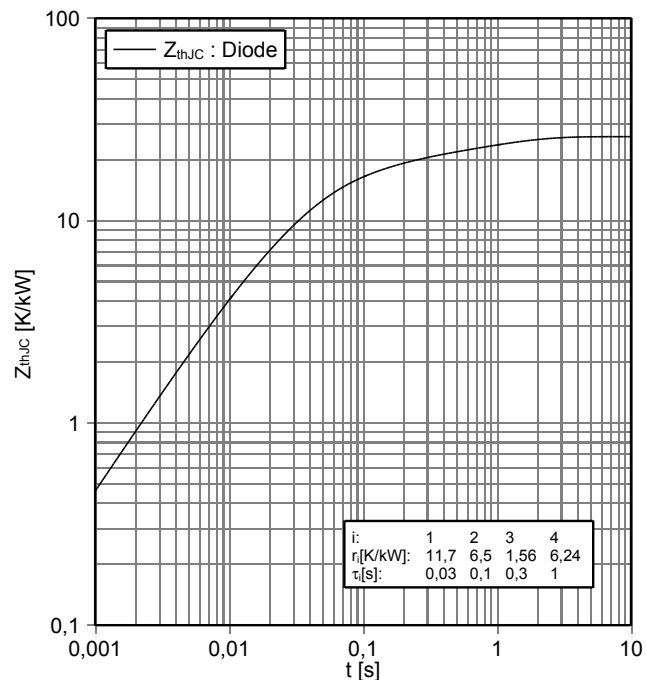
开关损耗 反向二极管 (典型)
switching losses Diode, Reverse (typical)
 $E_{rec} = f(I_F)$
 $R_{Gon} = 1.4 \Omega, V_{CE} = 1800 V$



开关损耗 反向二极管 (典型)
switching losses Diode, Reverse (typical)
 $E_{rec} = f(R_G)$
 $I_F = 800 A, V_{CE} = 1800 V$



瞬态热阻抗 反向二极管
transient thermal impedance Diode, Reverse
 $Z_{thJC} = f(t)$

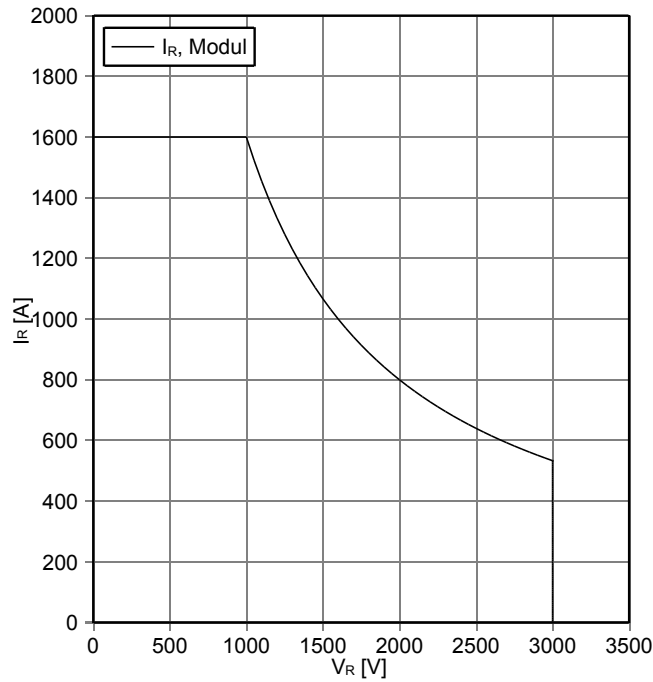


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初步数据
Preliminary Data

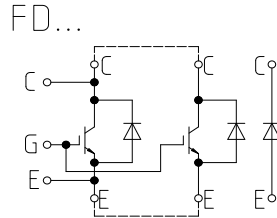
安全工作区 反向二极管 (SOA)
safe operation area Diode, Reverse (SOA)

$I_R = f(V_R)$
 $T_{vj} = 125^\circ\text{C}$



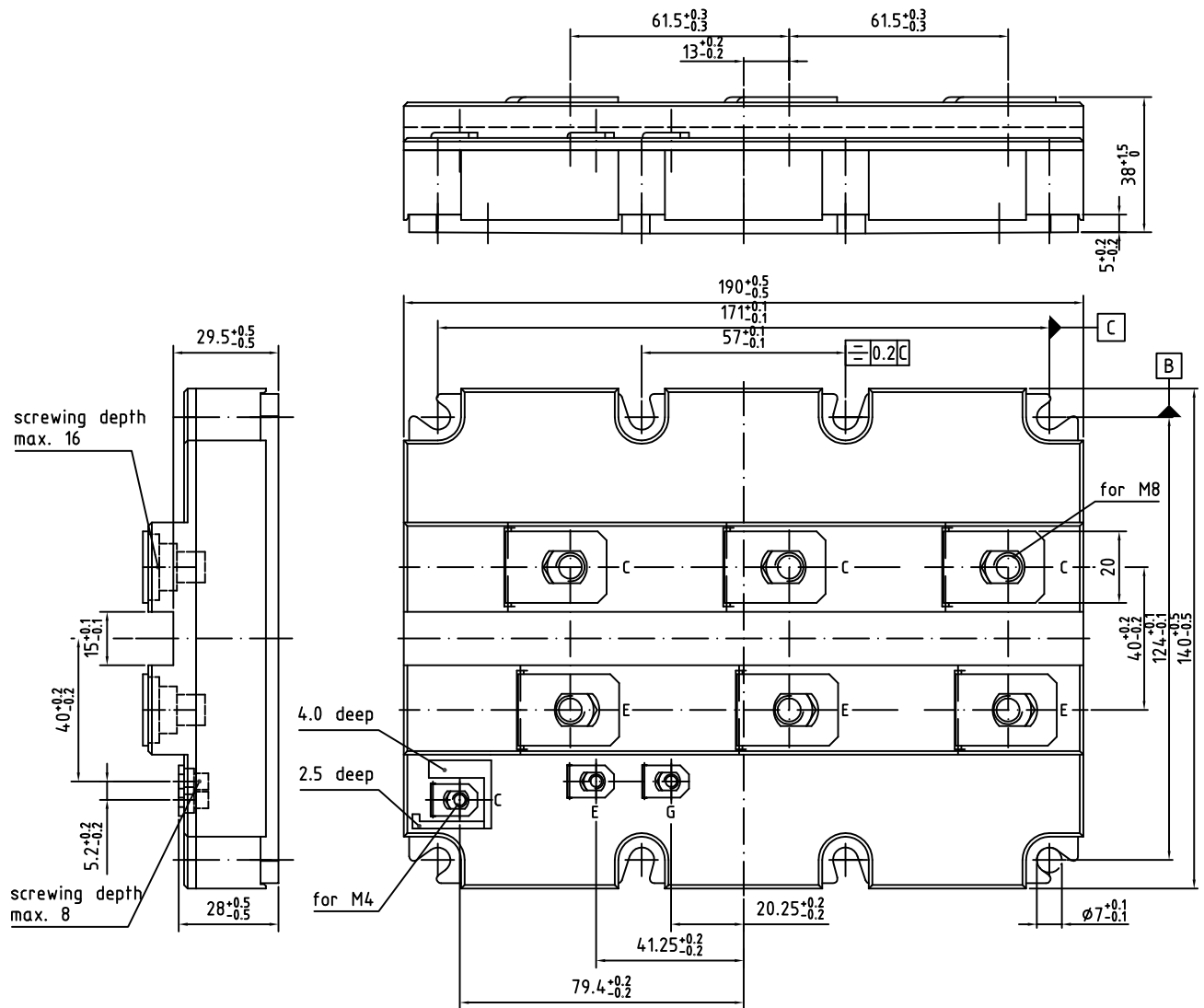
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接线图 / circuit_diagram_headline



external connection
(to be done)

封装尺寸 / package outlines



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**初步数据
Preliminary Data**

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-得到质量协议的结论

-建立联合的测试和出厂产品检查，我们可以根据测试的实际情况供货

如果有必要，请根据实际需要将类似的说明给你的客户

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- the conclusion of Quality Agreements;

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