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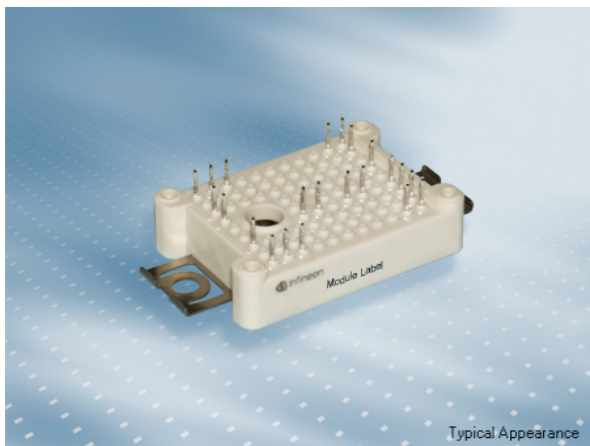
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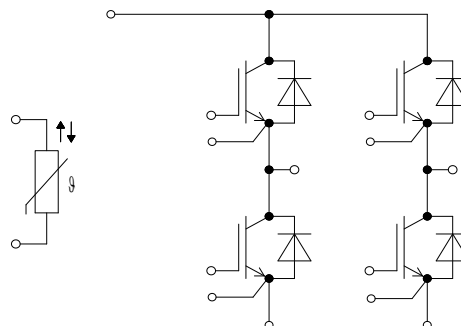
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



EasyPACK Modul mit schnellem Trench/Feldstopp IGBT3 und Rapid 1 Diode und PressFIT / NTC
EasyPACK module with fast Trench/Fieldstop IGBT3 and Rapid 1 diode and PressFIT / NTC



Typical Appearance



$V_{CES} = 650V$
 $I_{C\ nom} = 37,5A / I_{CRM} = 75A$

Typische Anwendungen

- Anwendungen im Automobil
- Anwendungen mit hohen Schaltfrequenzen
- DC/DC Wandler
- Hilfsumrichter
- Hybrid-Elektrofahrzeuge (H)EV
- Induktives Erwärmen und Schweißen

Elektrische Eigenschaften

- Erhöhte Sperrspannungsfestigkeit auf 650V
- High Speed IGBT H3
- Niederinduktives Design
- Niedrige Schaltverluste

Mechanische Eigenschaften

- 2,5 kV AC 1min Isolationsfestigkeit
- Große Luft- und Kriechstrecken
- Integrierter NTC Temperatur Sensor
- PressFIT Verbindungstechnik
- RoHS konform
- Robuste Montage durch integrierte Befestigungsklammern

Typical Applications

- Automotive Applications
- High Frequency Switching Application
- DC/DC converter
- Auxiliary Inverters
- Hybrid Electrical Vehicles (H)EV
- Inductive Heating and Welding

Electrical Features

- Increased blocking voltage capability to 650V
- High Speed IGBT H3
- Low inductive design
- Low Switching Losses

Mechanical Features

- 2.5 kV AC 1min Insulation
- High Creepage and Clearance Distances
- Integrated NTC temperature sensor
- PressFIT Contact Technology
- RoHS compliant
- Rugged mounting due to integrated mounting clamps

Module Label Code

Barcode Code 128



DMX - Code



Content of the Code

Digit

| | |
|----------------------------|---------|
| Module Serial Number | 1 - 5 |
| Module Material Number | 6 - 11 |
| Production Order Number | 12 - 19 |
| Datecode (Production Year) | 20 - 21 |
| Datecode (Production Week) | 22 - 23 |

| | | |
|-----------------|---------------------------------|----------------------|
| prepared by: AS | date of publication: 2014-03-05 | |
| approved by: TR | revision: 3.0 | UL approved (E83335) |



IGBT, Wechselrichter / IGBT, Inverter
Höchstzulässige Werte / Maximum Rated Values

| | | | | |
|--|---|-------------------|-------|---|
| Kollektor-Emitter-Sperrspannung Collector-emitter voltage | $T_{vj} = 25^{\circ}\text{C}$ | V_{CES} | 650 | V |
| Implementierter Kollektor-Strom Implemented collector current | | I_{CN} | 75 | A |
| Kollektor-Dauergleichstrom Continuous DC collector current | $T_C = 105^{\circ}\text{C}, T_{vj\max} = 175^{\circ}\text{C}$ | $I_{C\text{nom}}$ | 37,5 | A |
| Periodischer Kollektor-Spitzenstrom Repetitive peak collector current | $t_P = 1\text{ ms}$ | I_{CRM} | 150 | A |
| Gesamt-Verlustleistung Total power dissipation | $T_C = 25^{\circ}\text{C}, T_{vj\max} = 175^{\circ}\text{C}$ | P_{tot} | 275 | W |
| Gate-Emitter-Spitzenspannung Gate-emitter peak voltage | | V_{GES} | +/-20 | V |

Charakteristische Werte / Characteristic Values

| | | | min. | typ. | max. | |
|---|---|---|--------------------|-------------------------|------|---|
| Kollektor-Emitter-Sättigungsspannung Collector-emitter saturation voltage | $I_C = 37,5\text{ A}, V_{GE} = 15\text{ V}$ $I_C = 37,5\text{ A}, V_{GE} = 15\text{ V}$ $I_C = 37,5\text{ A}, V_{GE} = 15\text{ V}$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ $T_{vj} = 150^{\circ}\text{C}$ | $V_{CE\text{sat}}$ | 1,50 1,55 1,60 | 1,85 | V V V |
| Gate-Schwellenspannung Gate threshold voltage | $I_C = 1,20\text{ mA}, V_{CE} = V_{GE}, T_{vj} = 25^{\circ}\text{C}$ | | $V_{G\text{Eth}}$ | 4,9 | 5,8 | 6,5 V |
| Gateladung Gate charge | $V_{GE} = -15\text{ V} \dots +15\text{ V}$ | | Q_G | 0,80 | | μC |
| Interner Gatewiderstand Internal gate resistor | $T_{vj} = 25^{\circ}\text{C}$ | | $R_{G\text{int}}$ | 0,0 | | Ω |
| Eingangskapazität Input capacitance | $f = 1\text{ MHz}, T_{vj} = 25^{\circ}\text{C}, V_{CE} = 25\text{ V}, V_{GE} = 0\text{ V}$ | | C_{ies} | 4,70 | | nF |
| Rückwirkungskapazität 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} | 0,14 | | nF |
| Kollektor-Emitter-Reststrom Collector-emitter cut-off current | $V_{CE} = 650\text{ V}, V_{GE} = 0\text{ V}, T_{vj} = 25^{\circ}\text{C}$ | | I_{CES} | | 0,05 | mA |
| Gate-Emitter-Reststrom Gate-emitter leakage current | $V_{CE} = 0\text{ V}, V_{GE} = 20\text{ V}, T_{vj} = 25^{\circ}\text{C}$ | | I_{GES} | | 400 | nA |
| Einschaltverzögerungszeit, induktive Last Turn-on delay time, inductive load | $I_C = 37,5\text{ A}, V_{CE} = 300\text{ V}$ $V_{GE} = \pm 15\text{ V}$ $R_{G\text{on}} = 4,3\ \Omega$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ $T_{vj} = 150^{\circ}\text{C}$ | $t_{d\text{on}}$ | 0,019 0,019 0,02 | | μs μs μs |
| Anstiegszeit, induktive Last Rise time, inductive load | $I_C = 37,5\text{ A}, V_{CE} = 300\text{ V}$ $V_{GE} = \pm 15\text{ V}$ $R_{G\text{on}} = 4,3\ \Omega$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ $T_{vj} = 150^{\circ}\text{C}$ | t_r | 0,011 0,012 0,012 | | μs μs μs |
| Abschaltverzögerungszeit, induktive Last Turn-off delay time, inductive load | $I_C = 37,5\text{ A}, V_{CE} = 300\text{ V}$ $V_{GE} = \pm 15\text{ V}$ $R_{G\text{off}} = 4,3\ \Omega$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ $T_{vj} = 150^{\circ}\text{C}$ | $t_{d\text{off}}$ | 0,16 0,19 0,20 | | μs μs μs |
| Fallzeit, induktive Last Fall time, inductive load | $I_C = 37,5\text{ A}, V_{CE} = 300\text{ V}$ $V_{GE} = \pm 15\text{ V}$ $R_{G\text{off}} = 4,3\ \Omega$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ $T_{vj} = 150^{\circ}\text{C}$ | t_f | 0,006 0,012 0,013 | | μs μs μs |
| Einschaltverlustenergie pro Puls Turn-on energy loss per pulse | $I_C = 37,5\text{ A}, V_{CE} = 300\text{ V}, L_S = 25\text{ nH}$ $V_{GE} = \pm 15\text{ V}, di/dt = 3100\text{ A}/\mu\text{s} (T_{vj} = 150^{\circ}\text{C})$ $R_{G\text{on}} = 4,3\ \Omega$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ $T_{vj} = 150^{\circ}\text{C}$ | E_{on} | 0,23 0,36 0,40 | | mJ mJ mJ |
| Abschaltverlustenergie pro Puls Turn-off energy loss per pulse | $I_C = 37,5\text{ A}, V_{CE} = 300\text{ V}, L_S = 25\text{ nH}$ $V_{GE} = \pm 15\text{ V}, du/dt = 5000\text{ V}/\mu\text{s} (T_{vj} = 150^{\circ}\text{C})$ $R_{G\text{off}} = 4,3\ \Omega$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ $T_{vj} = 150^{\circ}\text{C}$ | E_{off} | 0,33 0,51 0,58 | | mJ mJ mJ |
| Kurzschlußverhalten SC data | $V_{GE} \leq 15\text{ V}, V_{CC} = 360\text{ V}$ $V_{CE\text{max}} = V_{CES} - L_{SCE} \cdot di/dt$ $t_P \leq 4\ \mu\text{s}, T_{vj} = 150^{\circ}\text{C}$ | | I_{SC} | 430 | | A |
| Wärmewiderstand, Chip bis Gehäuse Thermal resistance, junction to case | pro IGBT / per IGBT | | R_{thJC} | 0,45 | 0,55 | K/W |

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| prepared by: AS | date of publication: 2014-03-05 |
| approved by: TR | revision: 3.0 |



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|---|---|--------------------|-----|------|-----|-----|
| Wärmewiderstand, Gehäuse bis Kühlkörper Thermal resistance, case to heatsink | pro IGBT / per IGBT $\lambda_{\text{Paste}} = 1 \text{ W/(m}\cdot\text{K)}$ / $\lambda_{\text{grease}} = 1 \text{ W/(m}\cdot\text{K)}$ | R_{thCH} | | 0,65 | | K/W |
| Temperatur im Schaltbetrieb Temperature under switching conditions | | $T_{\text{vj op}}$ | -40 | | 150 | °C |

Diode, Wechselrichter / Diode, Inverter

Höchstzulässige Werte / Maximum Rated Values

| | | | | | | |
|---|---|------------------|--|------|--|------------------|
| Periodische Spitzensperrspannung Repetitive peak reverse voltage | $T_{\text{vj}} = 25^\circ\text{C}$ | V_{RRM} | | 650 | | V |
| Dauergleichstrom Continuous DC forward current | | I_{F} | | 25 | | A |
| Periodischer Spitzenstrom Repetitive peak forward current | $t_{\text{p}} = 1 \text{ ms}$ | I_{FRM} | | 50 | | A |
| Grenzlastintegral I^2t - value | $V_{\text{R}} = 0 \text{ V}$, $t_{\text{p}} = 10 \text{ ms}$, $T_{\text{vj}} = 125^\circ\text{C}$ | I^2t | | 50,0 | | A ² s |

Charakteristische Werte / Characteristic Values

| | | | | min. | typ. | max. | |
|---|---|--|--------------------|------|----------------------|------|---|
| Durchlassspannung Forward voltage | $I_{\text{F}} = 25 \text{ A}$, $V_{\text{GE}} = 0 \text{ V}$ $I_{\text{F}} = 25 \text{ A}$, $V_{\text{GE}} = 0 \text{ V}$ $I_{\text{F}} = 25 \text{ A}$, $V_{\text{GE}} = 0 \text{ V}$ | $T_{\text{vj}} = 25^\circ\text{C}$ $T_{\text{vj}} = 125^\circ\text{C}$ $T_{\text{vj}} = 150^\circ\text{C}$ | V_{F} | | 1,65 1,60 1,55 | 2,15 | V V V |
| Rückstromspitze Peak reverse recovery current | $I_{\text{F}} = 25 \text{ A}$, $-di_{\text{F}}/dt = 3000 \text{ A}/\mu\text{s}$ ($T_{\text{vj}}=150^\circ\text{C}$) $V_{\text{R}} = 300 \text{ V}$ $V_{\text{GE}} = -15 \text{ V}$ | $T_{\text{vj}} = 25^\circ\text{C}$ $T_{\text{vj}} = 125^\circ\text{C}$ $T_{\text{vj}} = 150^\circ\text{C}$ | I_{RM} | | 45,0 48,0 51,0 | | A A A |
| Sperrverzögerungsladung Recovered charge | $I_{\text{F}} = 25 \text{ A}$, $-di_{\text{F}}/dt = 3000 \text{ A}/\mu\text{s}$ ($T_{\text{vj}}=150^\circ\text{C}$) $V_{\text{R}} = 300 \text{ V}$ $V_{\text{GE}} = -15 \text{ V}$ | $T_{\text{vj}} = 25^\circ\text{C}$ $T_{\text{vj}} = 125^\circ\text{C}$ $T_{\text{vj}} = 150^\circ\text{C}$ | Q_{r} | | 1,05 1,65 1,90 | | μC μC μC |
| Abschaltenergie pro Puls Reverse recovery energy | $I_{\text{F}} = 25 \text{ A}$, $-di_{\text{F}}/dt = 3000 \text{ A}/\mu\text{s}$ ($T_{\text{vj}}=150^\circ\text{C}$) $V_{\text{R}} = 300 \text{ V}$ $V_{\text{GE}} = -15 \text{ V}$ | $T_{\text{vj}} = 25^\circ\text{C}$ $T_{\text{vj}} = 125^\circ\text{C}$ $T_{\text{vj}} = 150^\circ\text{C}$ | E_{rec} | | 0,25 0,39 0,44 | | mJ mJ mJ |
| Wärmewiderstand, Chip bis Gehäuse Thermal resistance, junction to case | pro Diode / per diode | | R_{thJC} | | 1,25 | 1,45 | K/W |
| Wärmewiderstand, Gehäuse bis Kühlkörper Thermal resistance, case to heatsink | pro Diode / per diode $\lambda_{\text{Paste}} = 1 \text{ W/(m}\cdot\text{K)}$ / $\lambda_{\text{grease}} = 1 \text{ W/(m}\cdot\text{K)}$ | | R_{thCH} | | 0,95 | | K/W |
| Temperatur im Schaltbetrieb Temperature under switching conditions | | | $T_{\text{vj op}}$ | -40 | | 150 | °C |

NTC-Widerstand / NTC-Thermistor

Charakteristische Werte / Characteristic Values

| | | | | min. | typ. | max. | |
|--|--|--|--------------|------|------|------|------------|
| Nennwiderstand Rated resistance | $T_{\text{C}} = 25^\circ\text{C}$ | | R_{25} | | 5,00 | | k Ω |
| Abweichung von R100 Deviation of R100 | $T_{\text{C}} = 100^\circ\text{C}$, $R_{100} = 493 \Omega$ | | $\Delta R/R$ | -5 | | 5 | % |
| Verlustleistung Power dissipation | $T_{\text{C}} = 25^\circ\text{C}$ | | P_{25} | | | 20,0 | mW |
| B-Wert B-value | $R_2 = R_{25} \exp [B_{25/50}(1/T_2 - 1/(298,15 \text{ K}))]$ | | $B_{25/50}$ | | 3375 | | K |
| B-Wert B-value | $R_2 = R_{25} \exp [B_{25/80}(1/T_2 - 1/(298,15 \text{ K}))]$ | | $B_{25/80}$ | | 3411 | | K |
| B-Wert B-value | $R_2 = R_{25} \exp [B_{25/100}(1/T_2 - 1/(298,15 \text{ K}))]$ | | $B_{25/100}$ | | 3433 | | K |

Angaben gemäß gültiger Application Note.
Specification according to the valid application note.

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| prepared by: AS | date of publication: 2014-03-05 |
| approved by: TR | revision: 3.0 |



Modul / Module

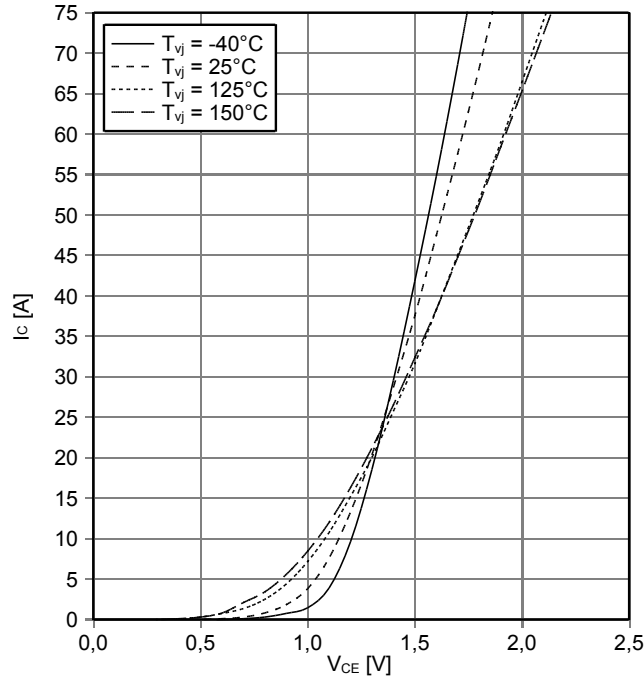
| | | | | | |
|---|---|---------------------|--------------------------------------|------|--------|
| Isolations-Prüfspannung Isolation test voltage | RMS, f = 50 Hz, t = 1 min. | V _{ISOL} | 2,5 | | kV |
| Innere Isolation Internal isolation | Basisisolation (Schutzklasse 1, EN61140) basic insulation (class 1, IEC 61140) | | impr. Al ₂ O ₃ | | |
| Kriechstrecke Creepage distance | Kontakt - Kühlkörper / terminal to heatsink Kontakt - Kontakt / terminal to terminal | | 11,5 6,3 | | mm |
| Luftstrecke Clearance | Kontakt - Kühlkörper / terminal to heatsink Kontakt - Kontakt / terminal to terminal | | 10,0 5,0 | | mm |
| Vergleichszahl der Kriechwegbildung Comperative tracking index | | CTI | > 200 | | |
| | | | min. | typ. | max. |
| Modulstreuintuktivität Stray inductance module | | L _{sCE} | | 15 | nH |
| Modulleitungswiderstand, Anschlüsse - Chip Module lead resistance, terminals - chip | T _c = 25°C, pro Schalter / per switch | R _{CC+EE'} | | 5,50 | mΩ |
| Lagertemperatur Storage temperature | | T _{stg} | -40 | | 125 °C |
| Anpresskraft für mech. Bef. pro Feder mounting force per clamp | | F | 20 | - | 50 N |
| Gewicht Weight | | G | | 24 | g |

Der Strom im Dauerbetrieb ist auf 25 A effektiv pro Anschlusspin begrenzt.
The current under continuous operation is limited to 25 A rms per connector pin.
VGE muss im Kurzschluss auf 15V begrenzt werden (z.B. Klemmschaltung).
VGE has to be limited to 15V during shortcircuit (e.g. clamping).

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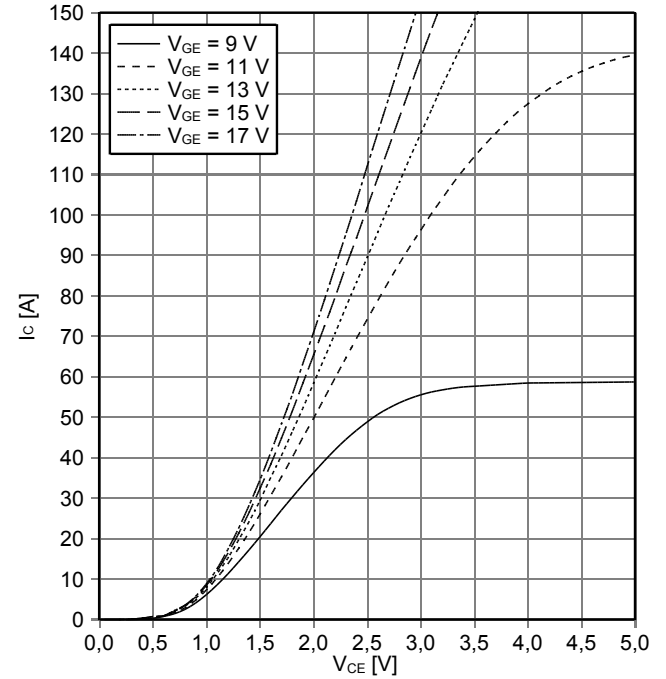
Ausgangskennlinie IGBT, Wechselrichter (typisch)
output characteristic IGBT, Inverter (typical)

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



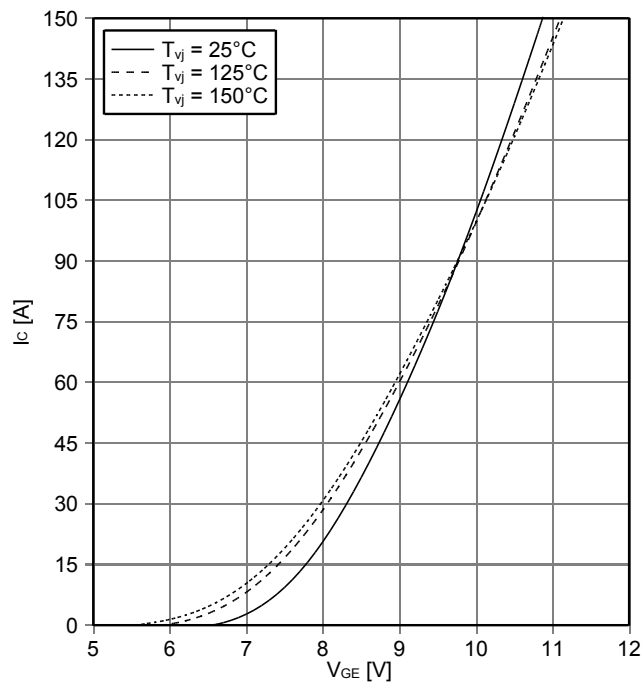
Ausgangskennlinienfeld IGBT, Wechselrichter (typisch)
output characteristic IGBT, Inverter (typical)

$I_C = f(V_{CE})$
 $T_{vj} = 150^\circ\text{C}$



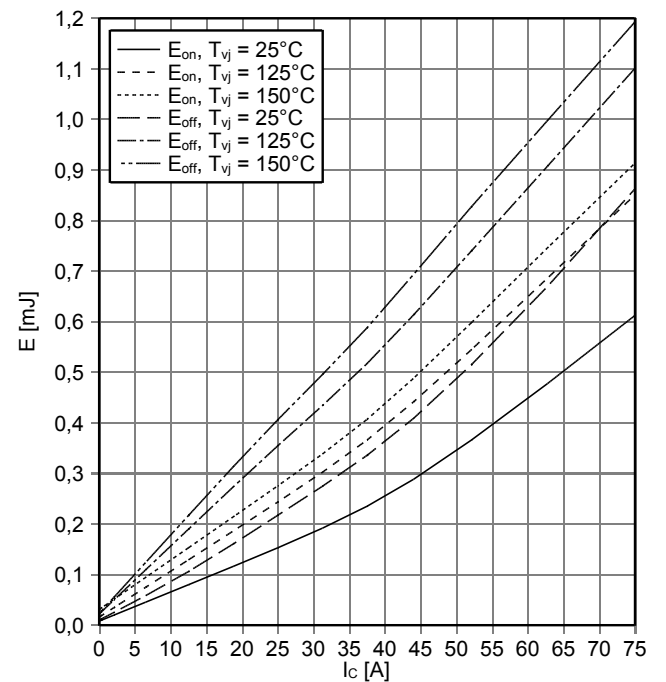
Übertragungscharakteristik IGBT, Wechselrichter (typisch)
transfer characteristic IGBT, Inverter (typical)

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



Schaltverluste IGBT, Wechselrichter (typisch)
switching losses IGBT, Inverter (typical)

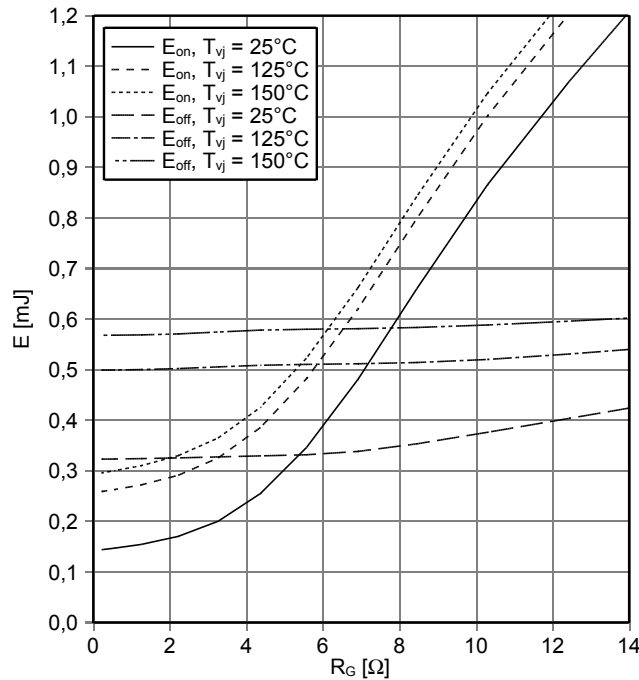
$E_{on} = f(I_C), E_{off} = f(I_C)$
 $V_{GE} = \pm 15\text{ V}, R_{Gon} = 4.3\ \Omega, R_{Goff} = 4.3\ \Omega, V_{CE} = 300\text{ V}$



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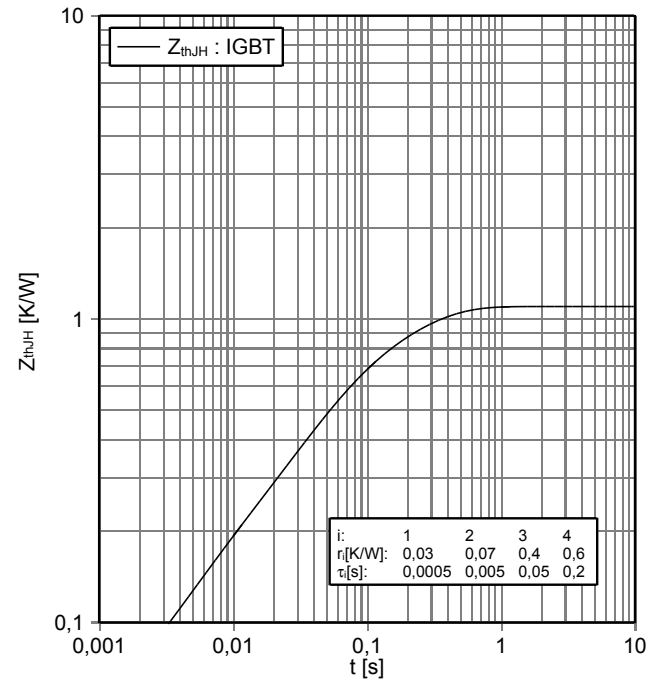
Schaltverluste IGBT, Wechselrichter (typisch)
switching losses IGBT, Inverter (typical)

$E_{on} = f(R_G)$, $E_{off} = f(R_G)$
 $V_{GE} = \pm 15\text{ V}$, $I_C = 37.5\text{ A}$, $V_{CE} = 300\text{ V}$



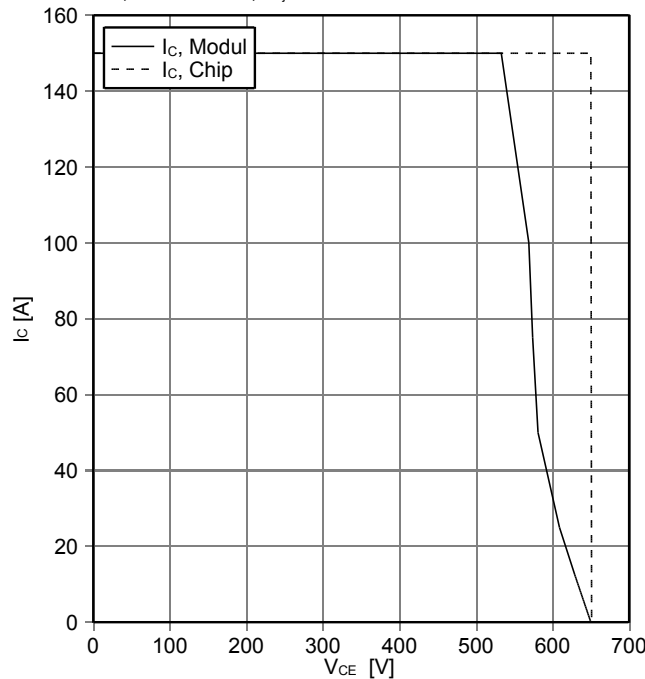
Transienter Wärmewiderstand IGBT, Wechselrichter
transient thermal impedance IGBT, Inverter

$Z_{thJH} = f(t)$



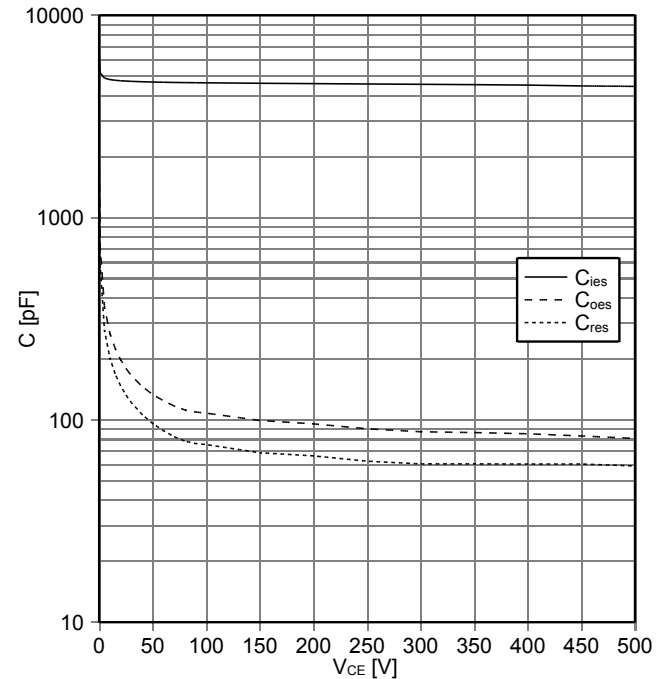
Sicherer Rückwärts-Arbeitsbereich IGBT, Wechselrichter (RBSOA)
reverse bias safe operating area IGBT, Inverter (RBSOA)

$I_C = f(V_{CE})$
 $V_{GE} = \pm 15\text{ V}$, $R_{Goff} = 4.3\ \Omega$, $T_{vj} = 150^\circ\text{C}$



Kapazitäts Charakteristik IGBT, Wechselrichter (typisch)
capacity characteristic IGBT, Inverter (typical)

$C = f(V_{CE})$
 $V_{GE} = 0\text{ V}$, $T_{vj} = 25^\circ\text{C}$, $f = 1\text{ MHz}$

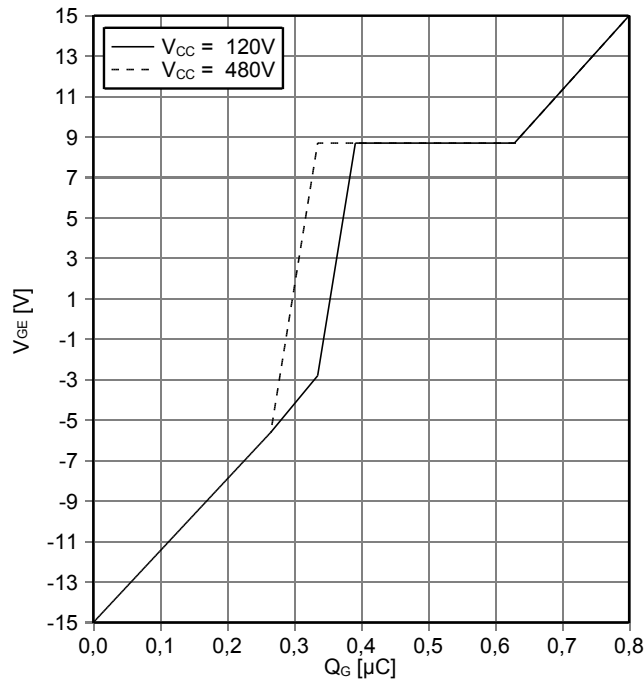


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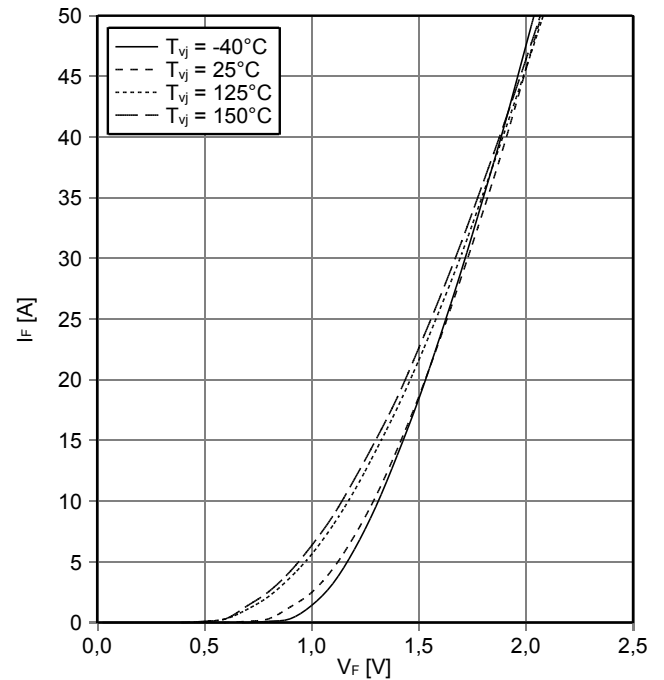
Gateladungs Charakteristik IGBT, Wechselrichter (typisch)
gate charge characteristic IGBT, Inverter (typical)

$V_{GE} = f(Q_G)$
 $I_C = 37.5 \text{ A}, T_{vj} = 25^\circ\text{C}$



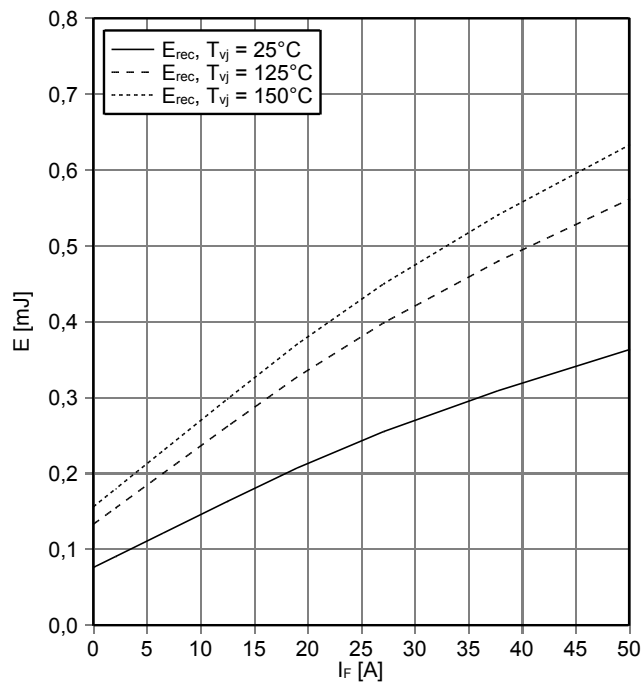
Durchlasskennlinie der Diode, Wechselrichter (typisch)
forward characteristic of Diode, Inverter (typical)

$I_F = f(V_F)$



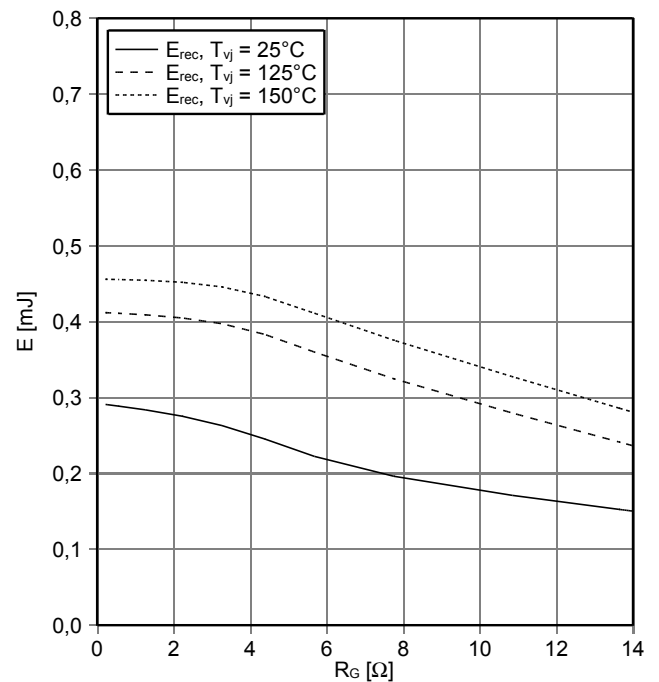
Schaltverluste Diode, Wechselrichter (typisch)
switching losses Diode, Inverter (typical)

$E_{rec} = f(I_F)$
 $R_{Gon} = 4.3 \Omega, V_{CE} = 300 \text{ V}$



Schaltverluste Diode, Wechselrichter (typisch)
switching losses Diode, Inverter (typical)

$E_{rec} = f(R_G)$
 $I_F = 25 \text{ A}, V_{CE} = 300 \text{ V}$

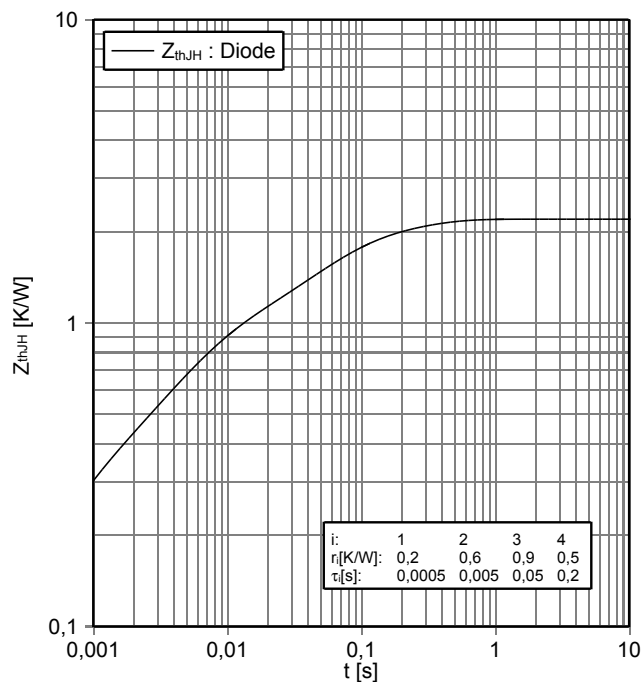


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Transienter Wärmewiderstand Diode, Wechselrichter
transient thermal impedance Diode, Inverter

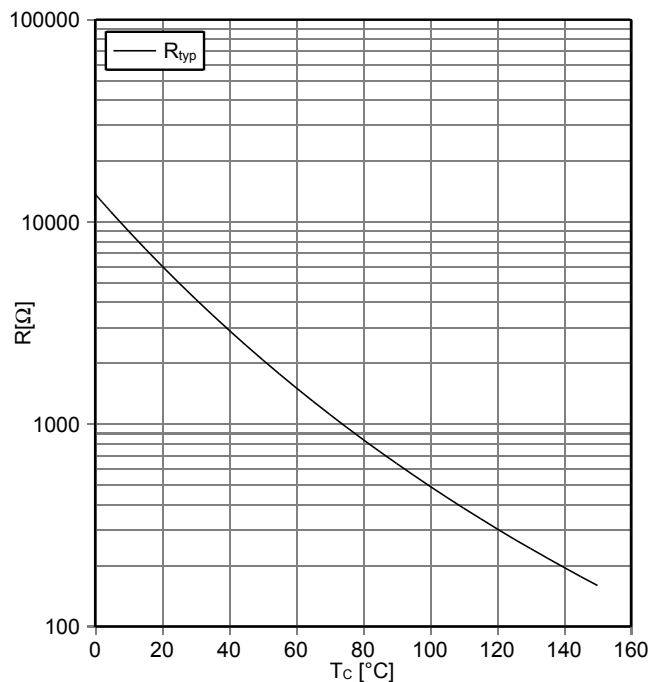
$Z_{thJH} = f(t)$



NTC-Widerstand-Temperaturkennlinie (typisch)

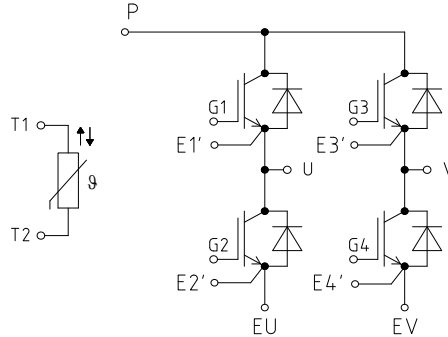
NTC-Thermistor-temperature characteristic (typical)

$R = f(T)$

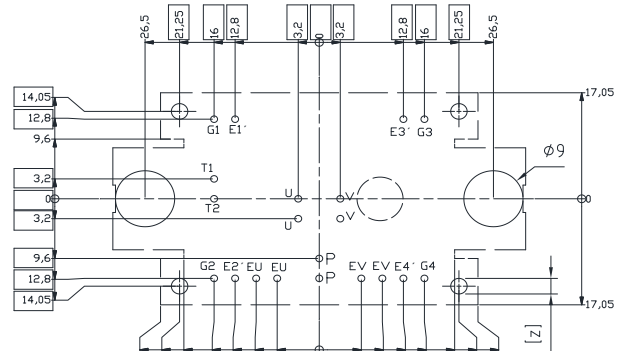
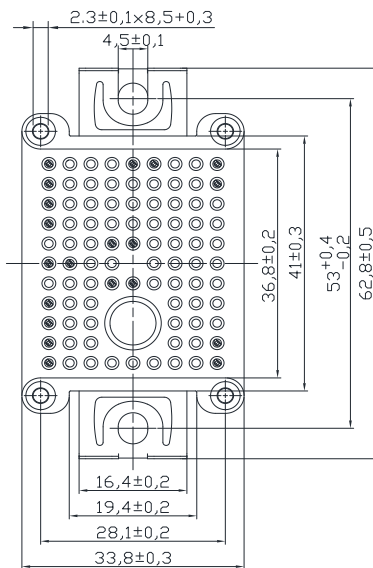
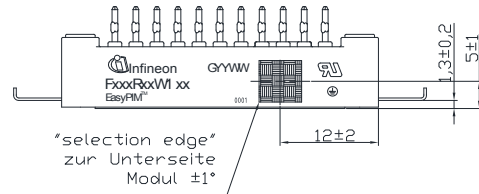
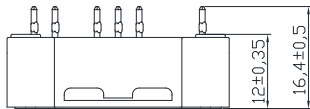


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| approved by: TR | revision: 3.0 |

Schaltplan / circuit_diagram_headline



Gehäuseabmessungen / package outlines



PCB hole pattern

- Pin-Grid 3,2mm
- Tolerance of PCB hole pattern $\pm 0,1$ 24x
- Hole specification for contacts see application note EASY PressFIT
- Diameters of drill Ø1,15mm and copper thickness in hole 25-50 µm
- [Z] recommended diameter of PCB positioning guiding holes Ø2,8mm

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- the conclusion of Quality Agreements;
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