



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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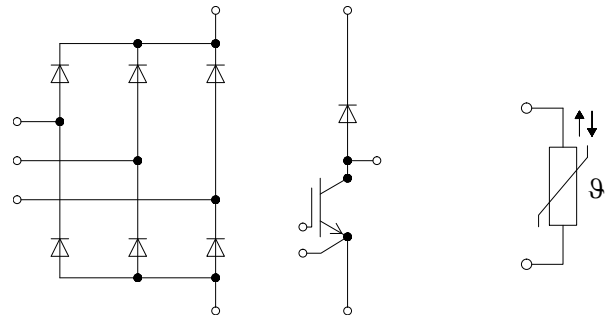
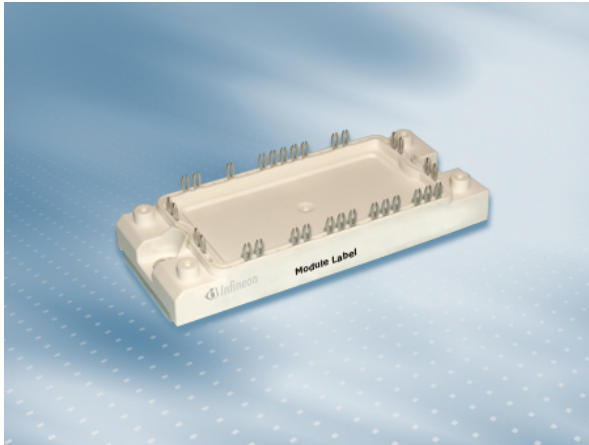
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EconoPACK™2 Modul mit Trench/Feldstopp IGBT4 und Emitter Controlled 4 Diode und PressFIT / bereits aufgetragenem Thermal Interface Material
 EconoPACK™2 module with Trench/Fieldstop IGBT4 and Emitter Controlled 4 diode and PressFIT / pre-applied Thermal Interface Material



$V_{CES} = 1600V$
 $I_{C\ nom} = 180A / I_{CRM} = 360A$

Typische Anwendungen

- Hilfsumrichter
- Klimaanlage
- Motorantriebe
- Servoumrichter

Typical Applications

- Auxiliary inverters
- Air conditioning
- Motor drives
- Servo drives

Elektrische Eigenschaften

- $T_{vj\ op} = 150^{\circ}C$

Electrical Features

- $T_{vj\ op} = 150^{\circ}C$

Mechanische Eigenschaften

- Al_2O_3 Substrat mit kleinem thermischen Widerstand
- Hohe Leistungsdichte
- Isolierte Bodenplatte
- Kompaktes Design
- PressFIT Verbindungstechnik
- RoHS konform
- Standardgehäuse
- Thermisches Interface Material bereits aufgetragen

Mechanical Features

- Al_2O_3 substrate with low thermal resistance
- High power density
- Isolated base plate
- Compact design
- PressFIT contact technology
- RoHS compliant
- Standard housing
- Pre-applied Thermal Interface Material

Module Label Code

Barcode Code 128



DMX - Code



Content of the 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 |

Diode, Gleichrichter / Diode, Rectifier

Höchstzulässige Werte / Maximum Rated Values

| | | | | |
|---|---|-------------|---------------|--|
| Periodische Spitzensperrspannung Repetitive peak reverse voltage | $T_{vj} = 25^{\circ}\text{C}$ | V_{RRM} | 1600 | V |
| Durchlassstrom Grenzeffektivwert pro Chip Maximum RMS forward current per chip | $T_H = 70^{\circ}\text{C}$ | I_{FRMSM} | 150 | A |
| Gleichrichter Ausgang Grenzeffektivstrom Maximum RMS current at rectifier output | $T_H = 70^{\circ}\text{C}$ | I_{RMSM} | 180 | A |
| Stoßstrom Grenzwert Surge forward current | $t_p = 10\text{ ms}, T_{vj} = 25^{\circ}\text{C}$ $t_p = 10\text{ ms}, T_{vj} = 150^{\circ}\text{C}$ | I_{FSM} | 1600 1400 | A A |
| Grenzlastintegral I^2t - value | $t_p = 10\text{ ms}, T_{vj} = 25^{\circ}\text{C}$ $t_p = 10\text{ ms}, T_{vj} = 150^{\circ}\text{C}$ | I^2t | 13000 9800 | A^2s A^2s |

Charakteristische Werte / Characteristic Values

| | | min. typ. max. | | | |
|--|--|--------------------|-----|-------|--------------------|
| Durchlassspannung Forward voltage | $T_{vj} = 150^{\circ}\text{C}, I_F = 150\text{ A}$ | V_F | | 1,20 | V |
| Schleusenspannung Threshold voltage | $T_{vj} = 150^{\circ}\text{C}$ | V_{TO} | | 0,83 | V |
| Ersatzwiderstand Slope resistance | $T_{vj} = 150^{\circ}\text{C}$ | r_T | | 2,30 | $\text{m}\Omega$ |
| Sperrstrom Reverse current | $T_{vj} = 150^{\circ}\text{C}, V_R = 1600\text{ V}$ | I_R | | 1,00 | mA |
| Wärmewiderstand, Chip bis Kühlkörper Thermal resistance, junction to heatsink | pro Diode / per diode valid with IFX pre-applied thermal interface material | R_{thJH} | | 0,500 | K/W |
| Temperatur im Schaltbetrieb Temperature under switching conditions | | $T_{vj\text{ op}}$ | -40 | 150 | $^{\circ}\text{C}$ |

IGBT, Brems-Chopper / IGBT, Brake-Chopper Höchstzulässige Werte / Maximum Rated Values

| | | | | |
|--|---|--------------------|-------|---|
| Kollektor-Emitter-Sperrspannung Collector-emitter voltage | $T_{vj} = 25^{\circ}\text{C}$ | V_{CES} | 1200 | V |
| Kollektor-Dauergleichstrom Continuous DC collector current | $T_H = 65^{\circ}\text{C}, T_{vj\text{ max}} = 175^{\circ}\text{C}$ | $I_{C\text{ nom}}$ | 100 | A |
| Periodischer Kollektor-Spitzenstrom Repetitive peak collector current | $t_P = 1\text{ ms}$ | I_{CRM} | 200 | A |
| 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 | $I_C = 100\text{ A}, V_{GE} = 15\text{ V}$ | $T_{vj} = 25^{\circ}\text{C}$ | $V_{CE\text{ sat}}$ | 1,75 | 2,10 | V | |
| | $I_C = 100\text{ A}, V_{GE} = 15\text{ V}$ | $T_{vj} = 125^{\circ}\text{C}$ | | 2,05 | | V | |
| | $I_C = 100\text{ A}, V_{GE} = 15\text{ V}$ | $T_{vj} = 150^{\circ}\text{C}$ | | 2,10 | | V | |
| | | | | | | | |
| Gate-Schwellenspannung Gate threshold voltage | $I_C = 3,80\text{ mA}, V_{CE} = V_{GE}, T_{vj} = 25^{\circ}\text{C}$ | | V_{GEth} | 5,25 | 5,80 | 6,35 | V |
| Gateladung Gate charge | $V_{GE} = -15\text{ V} \dots +15\text{ V}$ | | Q_G | 0,75 | | | μC |
| Interner Gatewiderstand Internal gate resistor | $T_{vj} = 25^{\circ}\text{C}$ | | R_{Gint} | 7,5 | | | 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} | 6,20 | | | 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} | 0,35 | | | nF |
| Kollektor-Emitter-Reststrom Collector-emitter cut-off current | $V_{CE} = 1200\text{ V}, V_{GE} = 0\text{ V}, T_{vj} = 25^{\circ}\text{C}$ | | I_{CES} | | | 1,0 | 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} | | | 100 | nA |
| Einschaltverzögerungszeit, induktive Last Turn-on delay time, inductive load | $I_C = 100\text{ A}, V_{CE} = 600\text{ V}$ $V_{GE} = \pm 15\text{ V}$ $R_{Gon} = 1,6\ \Omega$ | $T_{vj} = 25^{\circ}\text{C}$ | t_{don} | 0,16 | | μs | |
| | | $T_{vj} = 125^{\circ}\text{C}$ | | 0,17 | | μs | |
| | | $T_{vj} = 150^{\circ}\text{C}$ | | 0,17 | | μs | |
| Anstiegszeit, induktive Last Rise time, inductive load | $I_C = 100\text{ A}, V_{CE} = 600\text{ V}$ $V_{GE} = \pm 15\text{ V}$ $R_{Gon} = 1,6\ \Omega$ | $T_{vj} = 25^{\circ}\text{C}$ | t_r | 0,03 | | μs | |
| | | $T_{vj} = 125^{\circ}\text{C}$ | | 0,04 | | μs | |
| | | $T_{vj} = 150^{\circ}\text{C}$ | | 0,04 | | μs | |
| Abschaltverzögerungszeit, induktive Last Turn-off delay time, inductive load | $I_C = 100\text{ A}, V_{CE} = 600\text{ V}$ $V_{GE} = \pm 15\text{ V}$ $R_{Goff} = 1,6\ \Omega$ | $T_{vj} = 25^{\circ}\text{C}$ | t_{doff} | 0,33 | | μs | |
| | | $T_{vj} = 125^{\circ}\text{C}$ | | 0,43 | | μs | |
| | | $T_{vj} = 150^{\circ}\text{C}$ | | 0,45 | | μs | |
| Fallzeit, induktive Last Fall time, inductive load | $I_C = 100\text{ A}, V_{CE} = 600\text{ V}$ $V_{GE} = \pm 15\text{ V}$ $R_{Goff} = 1,6\ \Omega$ | $T_{vj} = 25^{\circ}\text{C}$ | t_f | 0,08 | | μs | |
| | | $T_{vj} = 125^{\circ}\text{C}$ | | 0,145 | | μs | |
| | | $T_{vj} = 150^{\circ}\text{C}$ | | 0,17 | | μs | |
| Einschaltverlustenergie pro Puls Turn-on energy loss per pulse | $I_C = 100\text{ A}, V_{CE} = 600\text{ V}, L_S = 30\text{ nH}$ $V_{GE} = \pm 15\text{ V}, di/dt = 3000\text{ A}/\mu\text{s} (T_{vj} = 150^{\circ}\text{C})$ $R_{Gon} = 1,6\ \Omega$ | $T_{vj} = 25^{\circ}\text{C}$ | E_{on} | 5,50 | | mJ | |
| | | $T_{vj} = 125^{\circ}\text{C}$ | | 8,50 | | mJ | |
| | | $T_{vj} = 150^{\circ}\text{C}$ | | 9,50 | | mJ | |
| Abschaltverlustenergie pro Puls Turn-off energy loss per pulse | $I_C = 100\text{ A}, V_{CE} = 600\text{ V}, L_S = 30\text{ nH}$ $V_{GE} = \pm 15\text{ V}, du/dt = 3600\text{ V}/\mu\text{s} (T_{vj} = 150^{\circ}\text{C})$ $R_{Goff} = 1,6\ \Omega$ | $T_{vj} = 25^{\circ}\text{C}$ | E_{off} | 5,50 | | mJ | |
| | | $T_{vj} = 125^{\circ}\text{C}$ | | 8,50 | | mJ | |
| | | $T_{vj} = 150^{\circ}\text{C}$ | | 9,50 | | mJ | |
| Kurzschlußverhalten SC data | $V_{GE} \leq 15\text{ V}, V_{CC} = 800\text{ V}$ $V_{CEmax} = V_{CES} - L_{SCE} \cdot di/dt$ $t_P \leq 10\ \mu\text{s}, T_{vj} = 150^{\circ}\text{C}$ | | I_{SC} | 360 | | A | |
| Wärmewiderstand, Chip bis Kühlkörper Thermal resistance, junction to heatsink | pro IGBT / per IGBT valid with IFX pre-applied thermal interface material | | R_{thJH} | | 0,425 | K/W | |
| Temperatur im Schaltbetrieb Temperature under switching conditions | | | $T_{vj\text{ op}}$ | -40 | 150 | $^{\circ}\text{C}$ | |

Diode, Brems-Chopper / Diode, Brake-Chopper Höchstzulässige Werte / Maximum Rated Values

| | | | | |
|--|--|-----------|------|----------------------|
| Periodische Spitzenspernung Repetitive peak reverse voltage | $T_{vj} = 25^{\circ}\text{C}$ | V_{RRM} | 1200 | V |
| Dauergleichstrom Continuous DC forward current | | I_F | 50 | A |
| Periodischer Spitzenstrom Repetitive peak forward current | $t_p = 1\text{ ms}$ | I_{FRM} | 100 | A |
| Grenzlastintegral I^2t - value | $V_R = 0\text{ V}, t_p = 10\text{ ms}, T_{vj} = 125^{\circ}\text{C}$ | I^2t | 510 | A^2s |

Charakteristische Werte / Characteristic Values

| | | | min. | typ. | max. | |
|--|--|---|--------------------|----------------------|------|---|
| Durchlassspannung Forward voltage | $I_F = 50\text{ A}, V_{GE} = 0\text{ V}$ $I_F = 50\text{ A}, V_{GE} = 0\text{ V}$ $I_F = 50\text{ A}, V_{GE} = 0\text{ V}$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ $T_{vj} = 150^{\circ}\text{C}$ | V_F | 1,70 1,65 1,65 | 2,15 | V V V |
| Rückstromspitze Peak reverse recovery current | $I_F = 50\text{ A}, -di_F/dt = 2500\text{ A}/\mu\text{s} (T_{vj}=150^{\circ}\text{C})$ $V_R = 600\text{ V}$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ $T_{vj} = 150^{\circ}\text{C}$ | I_{RM} | 54,0 60,0 63,0 | | A A A |
| Sperrverzögerungsladung Recovered charge | $I_F = 50\text{ A}, -di_F/dt = 2500\text{ A}/\mu\text{s} (T_{vj}=150^{\circ}\text{C})$ $V_R = 600\text{ V}$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ $T_{vj} = 150^{\circ}\text{C}$ | Q_r | 5,50 8,80 10,0 | | μC μC μC |
| Abschaltenergie pro Puls Reverse recovery energy | $I_F = 50\text{ A}, -di_F/dt = 2500\text{ A}/\mu\text{s} (T_{vj}=150^{\circ}\text{C})$ $V_R = 600\text{ V}$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ $T_{vj} = 150^{\circ}\text{C}$ | E_{rec} | 1,70 3,00 3,70 | | mJ mJ mJ |
| Wärmewiderstand, Chip bis Kühlkörper Thermal resistance, junction to heatsink | pro Diode / per diode valid with IFX pre-applied thermal interface material | | R_{thJH} | | 1,19 | K/W |
| Temperatur im Schaltbetrieb Temperature under switching conditions | | | $T_{vj\text{ op}}$ | -40 | 150 | $^{\circ}\text{C}$ |

NTC-Widerstand / NTC-Thermistor

Charakteristische Werte / Characteristic Values

| | | | min. | typ. | max. | |
|--|---|--|--------------|------|------|------------------|
| Nennwiderstand Rated resistance | $T_{NTC} = 25^{\circ}\text{C}$ | | R_{25} | 5,00 | | $\text{k}\Omega$ |
| Abweichung von R100 Deviation of R100 | $T_{NTC} = 100^{\circ}\text{C}, R_{100} = 493\ \Omega$ | | $\Delta R/R$ | -5 | 5 | % |
| Verlustleistung Power dissipation | $T_{NTC} = 25^{\circ}\text{C}$ | | 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 |

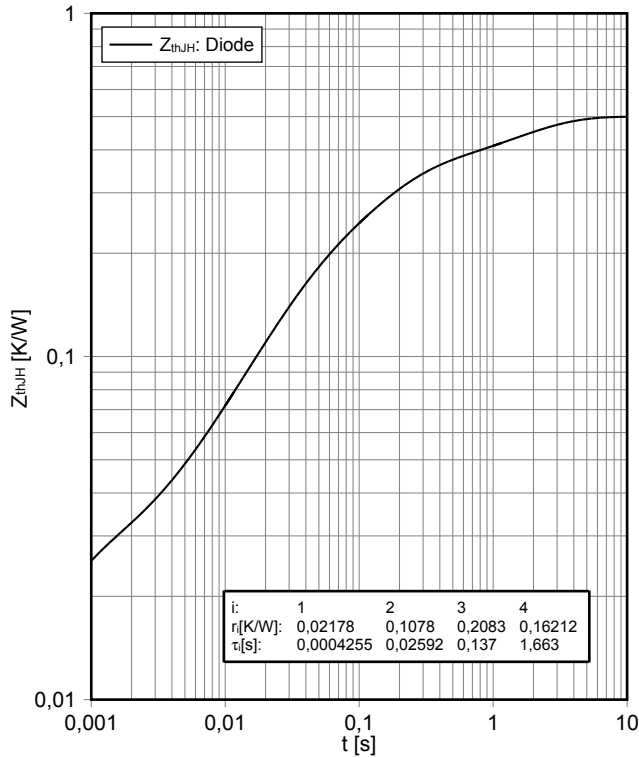
Angaben gemäß gültiger Application Note.
Specification according to the valid application note.

Modul / Module

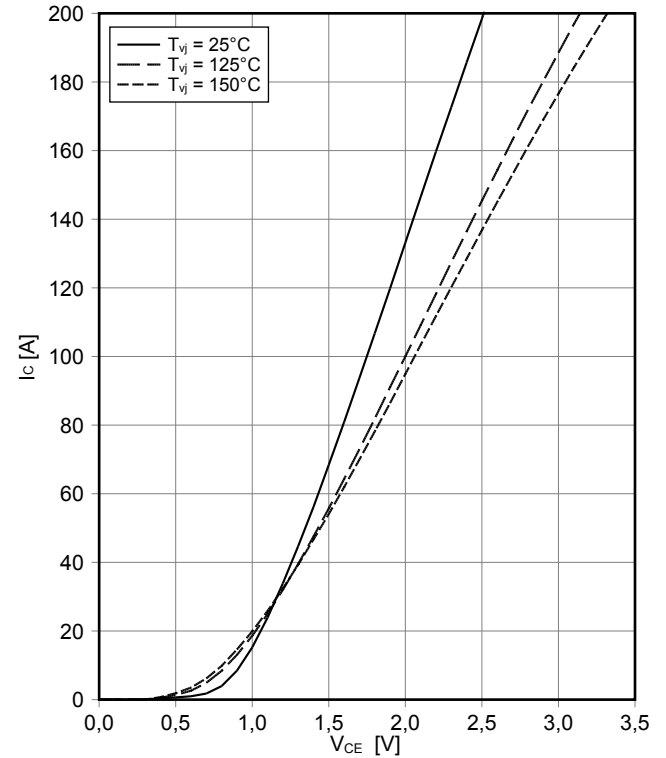
| | | | | | |
|--|--|----------------------|--------------------------------|------|---------|
| Isolations-Prüfspannung Isolation test voltage | RMS, f = 50 Hz, t = 1 min. | V _{ISOL} | 2,5 | | kV |
| Material Modulgrundplatte Material of module baseplate | | | Cu | | |
| Innere Isolation Internal isolation | Basisisolierung (Schutzklasse 1, EN61140) basic insulation (class 1, IEC 61140) | | Al ₂ O ₃ | | |
| Kriechstrecke Creepage distance | Kontakt - Kühlkörper / terminal to heatsink Kontakt - Kontakt / terminal to terminal | | 10,0 | | mm |
| Luftstrecke Clearance | Kontakt - Kühlkörper / terminal to heatsink Kontakt - Kontakt / terminal to terminal | | 7,5 | | mm |
| Vergleichszahl der Kriechwegbildung Comperative tracking index | | CTI | > 200 | | |
| | | | min. | typ. | max. |
| Modulstreuinduktivität Stray inductance module | | L _{SCE} | | 50 | nH |
| Modulleitungswiderstand, Anschlüsse - Chip Module lead resistance, terminals - chip | T _H = 25°C, pro Schalter / per switch | R _{AA'+CC'} | | 1,30 | mΩ |
| Lagertemperatur Storage temperature | | T _{stg} | -40 | | 125 °C |
| Höchstzulässige Bodenplattenbetriebstemperatur Maximum baseplate operation temperature | | T _{BPmax} | | | 125 °C |
| Anzugsdrehmoment f. Modulmontage Mounting torque for modul mounting | Schraube M5 - Montage gem. gültiger Applikationsschrift Screw M5 - Mounting according to valid application note | M | 3,00 | | 6,00 Nm |
| Gewicht Weight | | G | | 180 | g |

Lagerung und Transport von Modulen mit TIM => siehe AN 2012-07
Storage and shipment of modules with TIM => see AN 2012-07

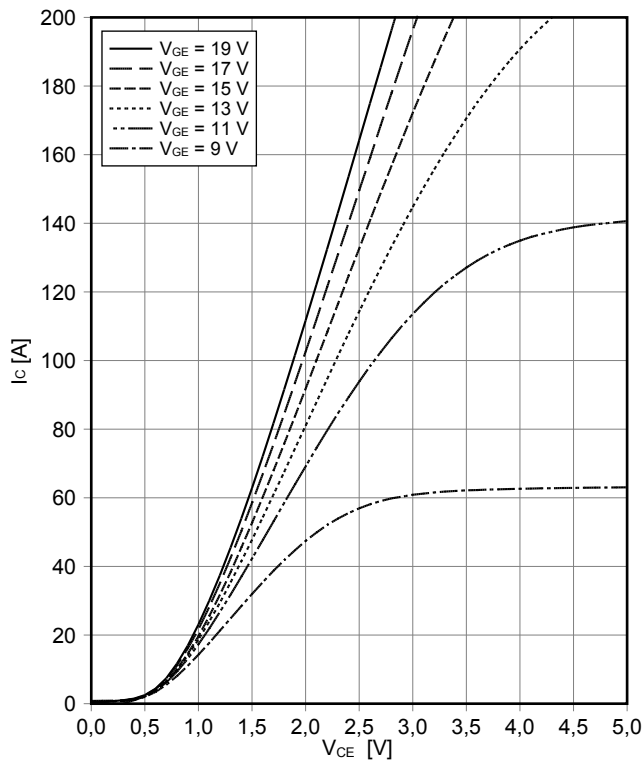
Transienter Wärmewiderstand Diode, Gleichrichter
transient thermal impedance Diode, Rectifier
 $Z_{thJH} = f(t)$



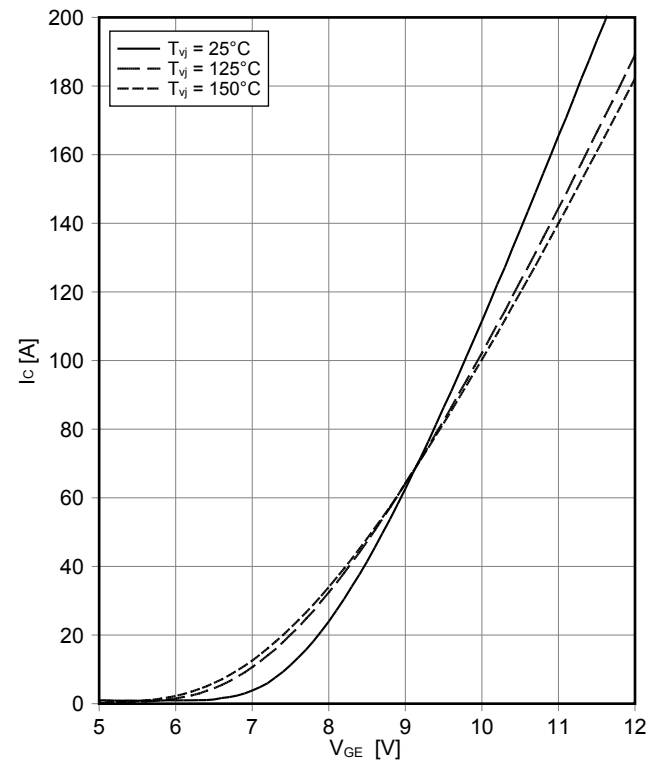
Ausgangskennlinie IGBT, Brems-Chopper (typisch)
output characteristic IGBT, Brake-Chopper (typical)
 $I_C = f(V_{CE})$
 $V_{GE} = 15\text{ V}$



Ausgangskennlinienfeld IGBT, Brems-Chopper (typisch)
output characteristic IGBT, Brake-Chopper (typical)
 $I_C = f(V_{CE})$
 $T_{vj} = 150^\circ\text{C}$

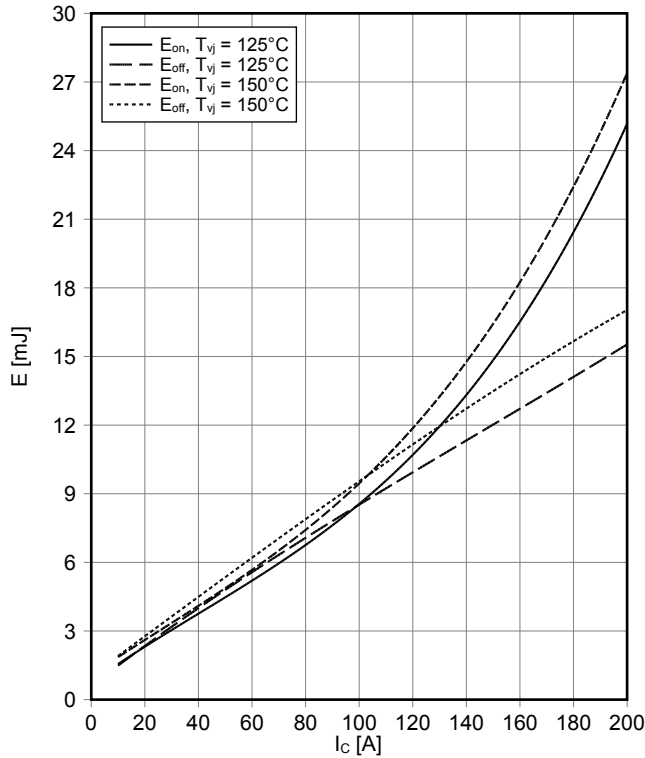


Übertragungscharakteristik IGBT, Brems-Chopper (typisch)
transfer characteristic IGBT, Brake-Chopper (typical)
 $I_C = f(V_{GE})$
 $V_{CE} = 20\text{ V}$



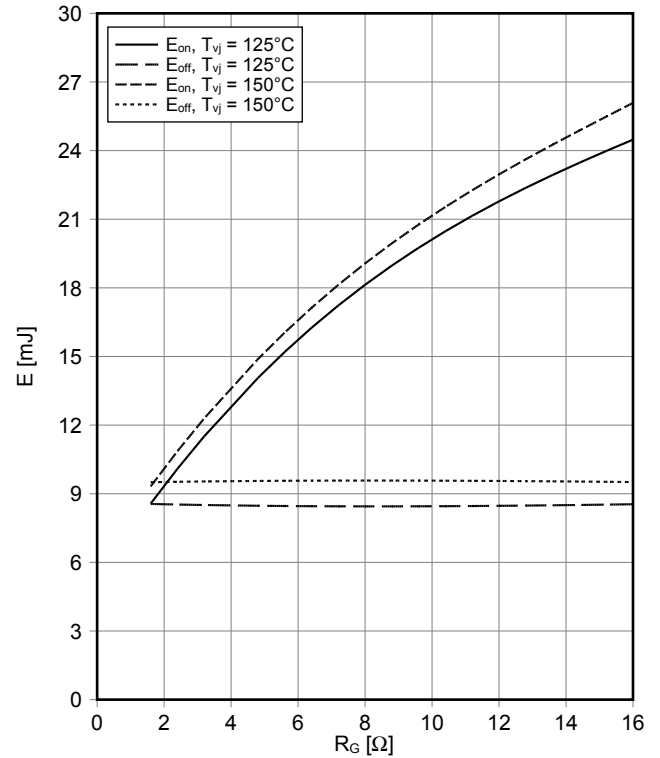
Schaltverluste IGBT, Brems-Chopper (typisch)
switching losses IGBT, Brake-Chopper (typical)

$E_{on} = f(I_c)$, $E_{off} = f(I_c)$
 $V_{GE} = \pm 15\text{ V}$, $R_{Gon} = 1.6\ \Omega$, $R_{Goff} = 1.6\ \Omega$, $V_{CE} = 600\text{ V}$



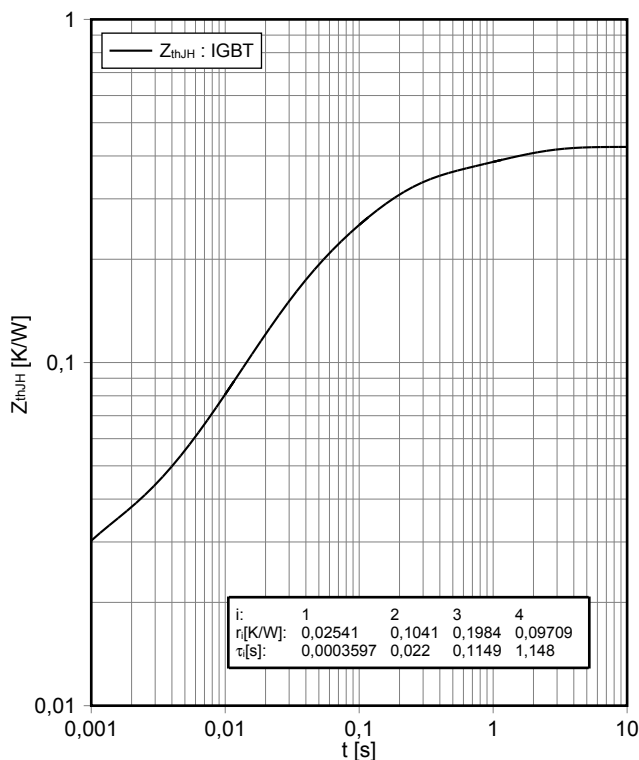
Schaltverluste IGBT, Brems-Chopper (typisch)
switching losses IGBT, Brake-Chopper (typical)

$E_{on} = f(R_G)$, $E_{off} = f(R_G)$
 $V_{GE} = \pm 15\text{ V}$, $I_c = 100\text{ A}$, $V_{CE} = 600\text{ V}$



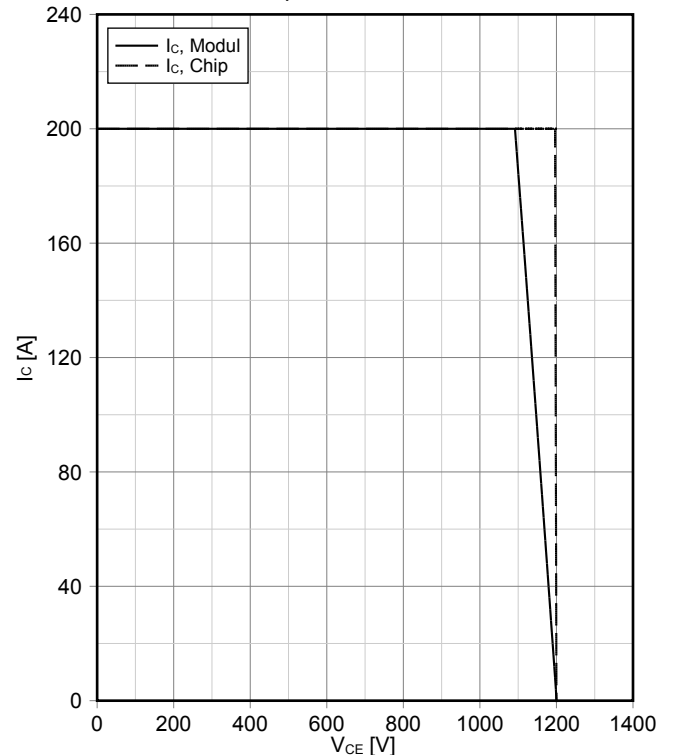
Transienter Wärmewiderstand IGBT, Brems-Chopper
transient thermal impedance IGBT, Brake-Chopper

$Z_{thJH} = f(t)$

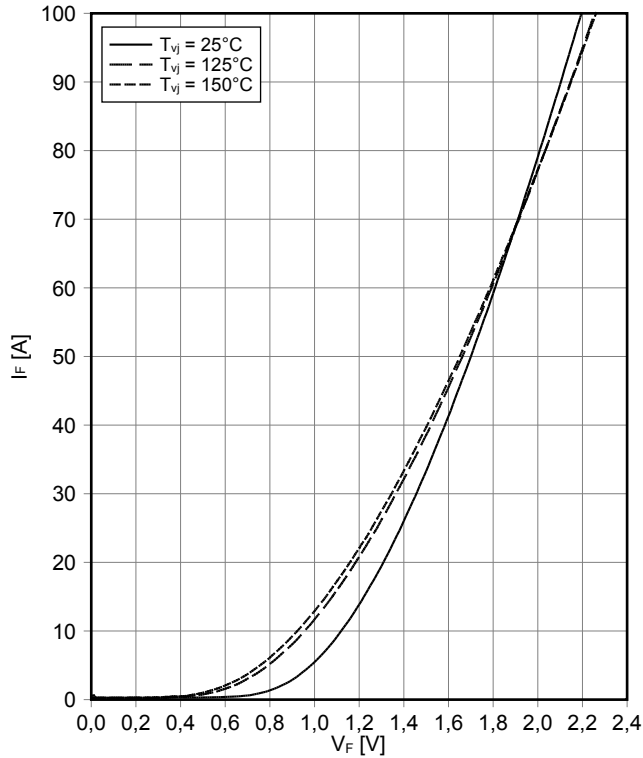


Sicherer Rückw.-Arbeitsber. IGBT, Brems-Chopper (RBSOA)
reverse bias safe operating area IGBT, Brake-Chopper (RBSOA)

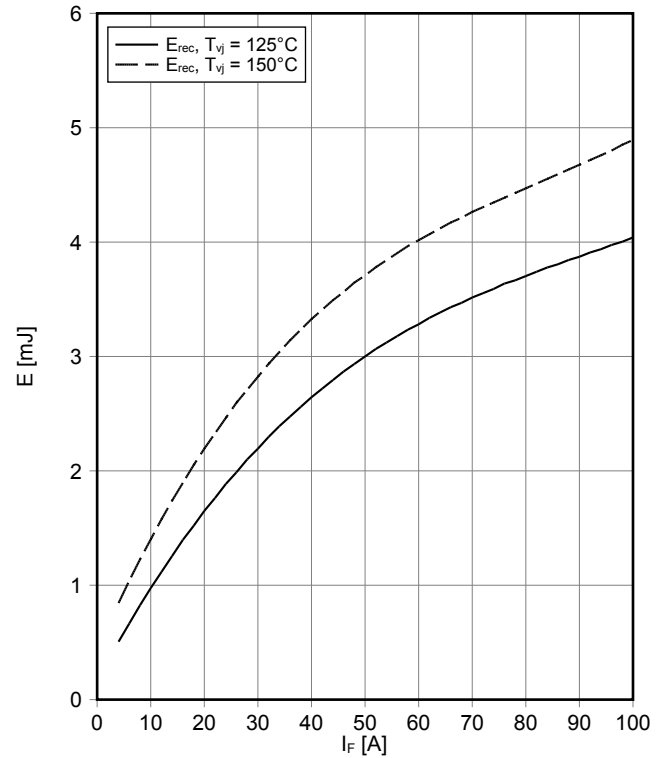
$I_c = f(V_{CE})$
 $V_{GE} = \pm 15\text{ V}$, $R_{Goff} = 1.6\ \Omega$, $T_{vj} = 150^\circ\text{C}$



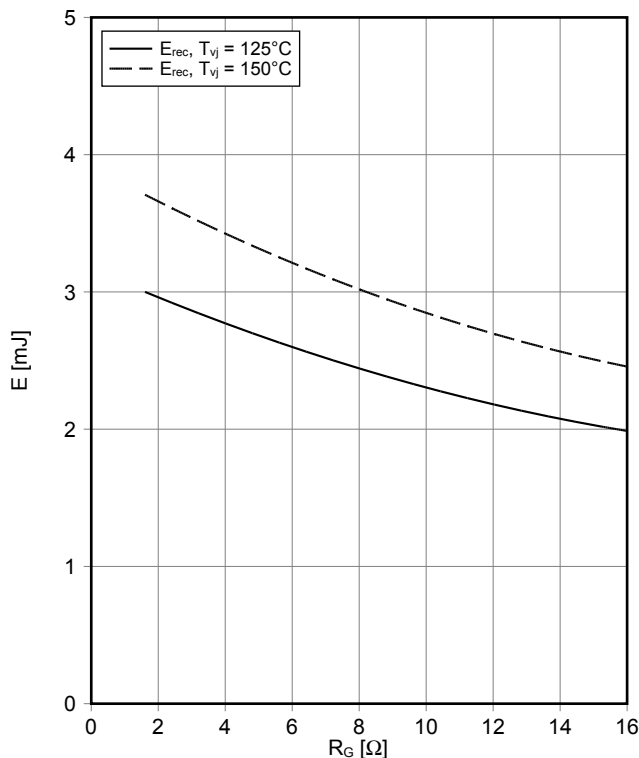
Durchlasskennlinie der Diode, Brems-Chopper (typisch)
forward characteristic of Diode, Brake-Chopper (typical)
 $I_F = f(V_F)$



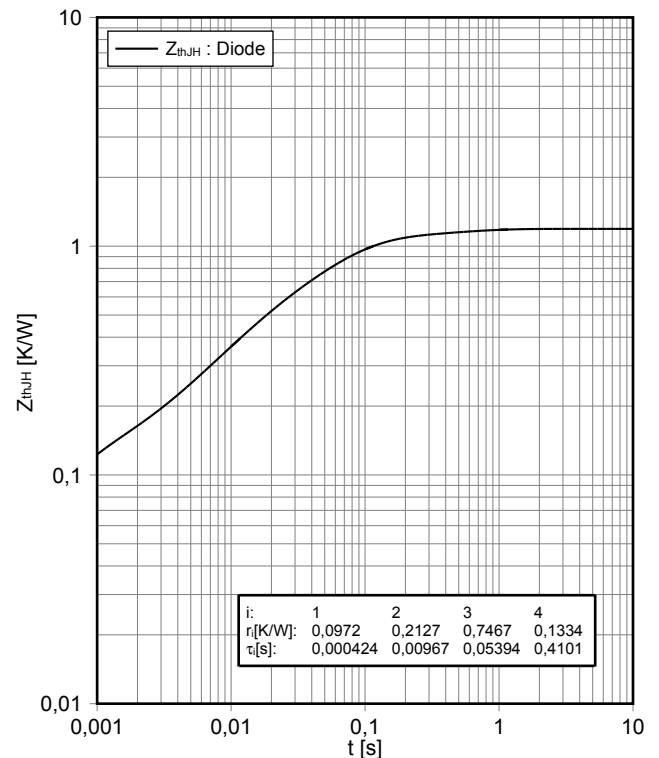
Schaltverluste Diode, Brems-Chopper (typisch)
switching losses Diode, Brake-Chopper (typical)
 $E_{rec} = f(I_F)$
 $R_{Gon} = 1.6 \Omega, V_{CE} = 600 \text{ V}$



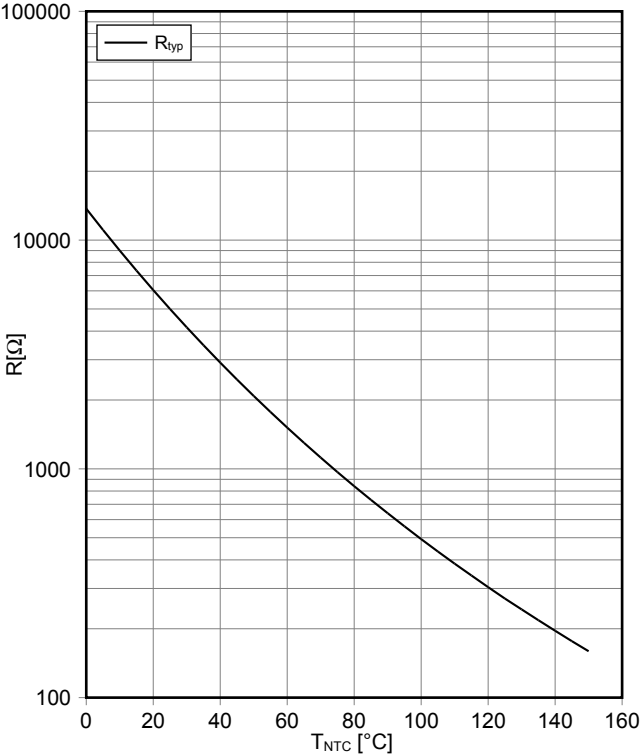
Schaltverluste Diode, Brems-Chopper (typisch)
switching losses Diode, Brake-Chopper (typical)
 $E_{rec} = f(R_G)$
 $I_F = 50 \text{ A}, V_{CE} = 600 \text{ V}$



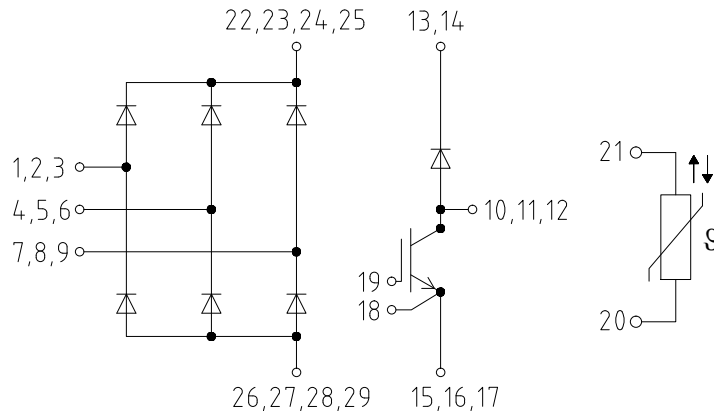
Transienter Wärmewiderstand Diode, Brems-Chopper
transient thermal impedance Diode, Brake-Chopper
 $Z_{thJH} = f(t)$



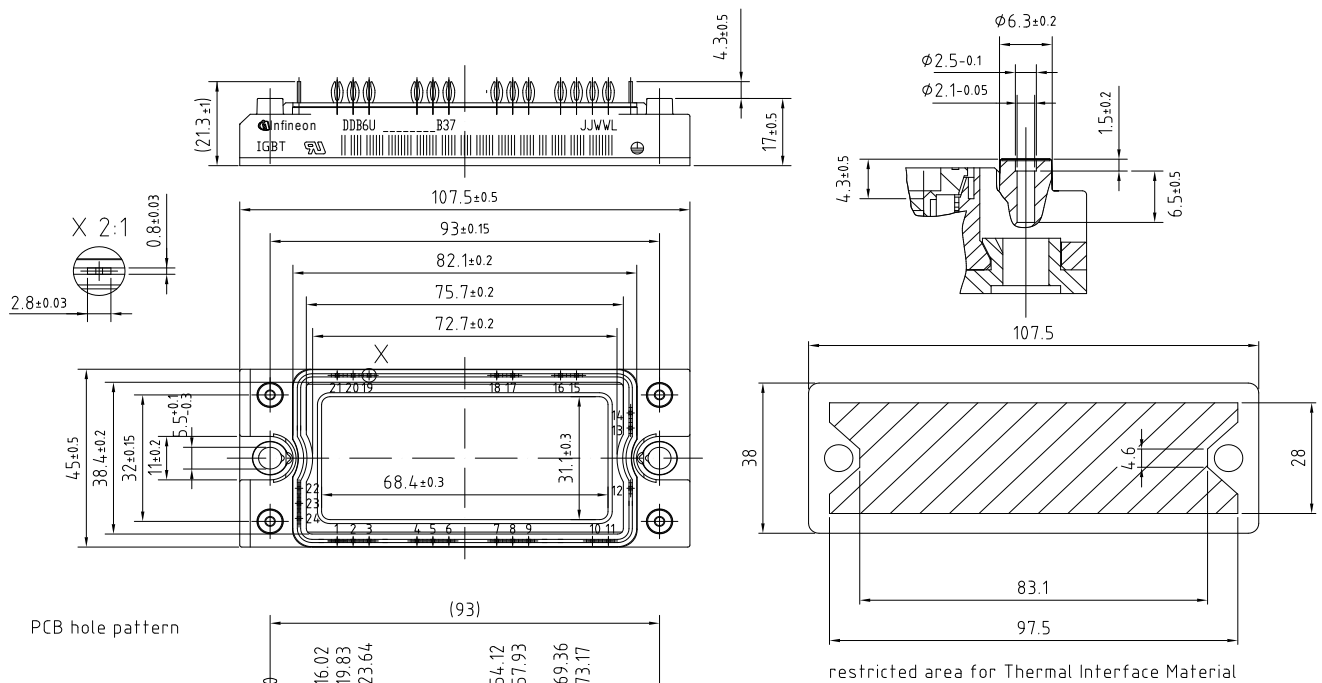
NTC-Widerstand-Temperaturkennlinie (typisch)
NTC-Thermistor-temperature characteristic (typical)
 $R = f(T)$



Schaltplan / Circuit diagram



Gehäuseabmessungen / Package outlines



- Tolerance of PCB hole pattern $\pm \phi 0.1$
- hole specifications see AN 2007-09
- Diameters of plated holes $\phi 2.14\text{mm} - 2.29\text{mm}$
- Diameter of drill $\phi 2.35\text{mm}$

Trademarks

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Edition 2017-07-25

**Published by
Infineon Technologies AG
81726 München, Germany**

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