



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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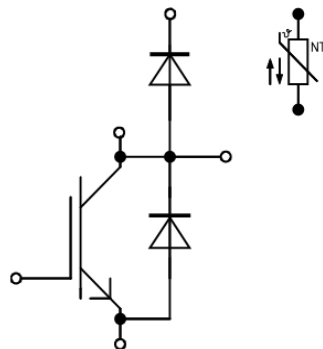
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

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



PrimePACK™2 Modul mit Trench/Feldstopp IGBT4, größerer Emitter Controlled 4 Diode
PrimePACK™2 module with Trench/Fieldstop IGBT4, enlarged Emitter Controlled 4 diode

Vorläufige Daten / Preliminary Data



$V_{CES} = 1200V$
 $I_{C\ nom} = 900A / I_{CRM} = 1800A$

Typische Anwendungen

- Hybrid-Nutzfahrzeuge

Typical Applications

- Commercial Agriculture Vehicles

Elektrische Eigenschaften

- Erweiterte Sperrschichttemperatur $T_{vj\ op}$
- Große DC-Festigkeit
- Hohe Kurzschlussrobustheit, selbstlimitierender Kurzschlussstrom
- Niedriges V_{CEsat}
- V_{CEsat} mit positivem Temperaturkoeffizienten

Electrical Features

- Extended Operation Temperature $T_{vj\ op}$
- High DC Stability
- High Short Circuit Capability, Self Limiting Short Circuit Current
- Low V_{CEsat}
- V_{CEsat} with positive Temperature Coefficient

Mechanische Eigenschaften

- 4 kV AC 1min Isolationsfestigkeit
- Gehäuse mit CTI > 400
- Große Luft- und Kriechstrecken
- Hohe Last- und thermische Wechselfestigkeit
- Hohe Leistungsdichte
- Substrat für kleinen thermischen Widerstand

Mechanical Features

- 4 kV AC 1min Insulation
- Package with CTI > 400
- High Creepage and Clearance Distances
- High Power and Thermal Cycling Capability
- High Power Density
- Substrate for Low Thermal Resistance

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 |

| | | |
|-----------------|---------------------------------|----------------------|
| prepared by: TA | date of publication: 2014-04-28 | |
| approved by: IB | revision: 2.0 | UL approved (E83335) |



**Vorläufige Daten
Preliminary Data**

**IGBT-Chopper / IGBT-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 | $T_C = 100^{\circ}\text{C}, T_{vj\max} = 175^{\circ}\text{C}$ | $I_{C\text{nom}}$ | 900 | A |
| Periodischer Kollektor-Spitzenstrom Repetitive peak collector current | $t_P = 1\text{ ms}$ | I_{CRM} | 1800 | A |
| Gesamt-Verlustleistung Total power dissipation | $T_C = 25^{\circ}\text{C}, T_{vj\max} = 175^{\circ}\text{C}$ | P_{tot} | 5,10 | kW |
| 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 | $I_C = 900\text{ A}, V_{GE} = 15\text{ V}$ $I_C = 900\text{ A}, V_{GE} = 15\text{ V}$ $I_C = 900\text{ A}, V_{GE} = 15\text{ V}$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ $T_{vj} = 150^{\circ}\text{C}$ | $V_{CE\text{sat}}$ | 1,70 2,00 2,10 | 2,05 | V V V |
| Gate-Schwellenspannung Gate threshold voltage | $I_C = 33,0\text{ mA}, V_{CE} = V_{GE}, T_{vj} = 25^{\circ}\text{C}$ | | V_{GEth} | 5,0 | 5,8 | 6,5 V |
| Gateladung Gate charge | $V_{GE} = -15\text{ V} \dots +15\text{ V}$ | | Q_G | 6,40 | | μC |
| Interner Gatewiderstand Internal gate resistor | $T_{vj} = 25^{\circ}\text{C}$ | | R_{Gint} | 1,2 | | 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} | 54,0 | | 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} | 2,80 | | 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} | | 5,0 | 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} | | 400 | nA |
| Einschaltverzögerungszeit, induktive Last Turn-on delay time, inductive load | $I_C = 900\text{ A}, V_{CE} = 600\text{ V}$ $V_{GE} = \pm 15\text{ V}$ $R_{Gon} = 1,6\ \Omega$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ $T_{vj} = 150^{\circ}\text{C}$ | t_{don} | 0,20 0,22 0,22 | | μs μs μs |
| Anstiegszeit, induktive Last Rise time, inductive load | $I_C = 900\text{ A}, V_{CE} = 600\text{ V}$ $V_{GE} = \pm 15\text{ V}$ $R_{Gon} = 1,6\ \Omega$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ $T_{vj} = 150^{\circ}\text{C}$ | t_r | 0,14 0,15 0,15 | | μs μs μs |
| Abschaltverzögerungszeit, induktive Last Turn-off delay time, inductive load | $I_C = 900\text{ A}, V_{CE} = 600\text{ V}$ $V_{GE} = \pm 15\text{ V}$ $R_{Goff} = 1,6\ \Omega$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ $T_{vj} = 150^{\circ}\text{C}$ | t_{doff} | 0,70 0,80 0,85 | | μs μs μs |
| Fallzeit, induktive Last Fall time, inductive load | $I_C = 900\text{ A}, V_{CE} = 600\text{ V}$ $V_{GE} = \pm 15\text{ V}$ $R_{Goff} = 1,6\ \Omega$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ $T_{vj} = 150^{\circ}\text{C}$ | t_f | 0,20 0,40 0,45 | | μs μs μs |
| Einschaltverlustenergie pro Puls Turn-on energy loss per pulse | $I_C = 900\text{ A}, V_{CE} = 600\text{ V}, L_S = 45\text{ nH}$ $V_{GE} = \pm 15\text{ V}, di/dt = 4800\text{ A}/\mu\text{s} (T_{vj} = 150^{\circ}\text{C})$ $R_{Gon} = 1,6\ \Omega$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ $T_{vj} = 150^{\circ}\text{C}$ | E_{on} | 50,0 70,0 80,0 | | mJ mJ mJ |
| Abschaltverlustenergie pro Puls Turn-off energy loss per pulse | $I_C = 900\text{ A}, V_{CE} = 600\text{ V}, L_S = 45\text{ nH}$ $V_{GE} = \pm 15\text{ V}, du/dt = 2700\text{ V}/\mu\text{s} (T_{vj} = 150^{\circ}\text{C})$ $R_{Goff} = 1,6\ \Omega$ | $T_{vj} = 25^{\circ}\text{C}$ $T_{vj} = 125^{\circ}\text{C}$ $T_{vj} = 150^{\circ}\text{C}$ | E_{off} | 150 200 205 | | mJ mJ mJ |
| Kurzschlussverhalten SC data | $V_{GE} \leq 15\text{ V}, V_{CC} = 800\text{ V}$ $V_{CE\text{max}} = V_{CES} - L_{SCE} \cdot di/dt$ $t_P \leq 10\ \mu\text{s}, T_{vj} = 150^{\circ}\text{C}$ | | I_{SC} | 3600 | | A |
| Wärmewiderstand, Chip bis Gehäuse Thermal resistance, junction to case | pro IGBT / per IGBT | | R_{thJC} | | 29,5 | K/kW |
| Wärmewiderstand, Gehäuse bis Kühlkörper Thermal resistance, case to heatsink | pro 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} | 16,0 | | K/kW |
| Temperatur im Schaltbetrieb Temperature under switching conditions | | | $T_{vj\text{op}}$ | -40 | 150 | $^{\circ}\text{C}$ |

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|-----------------|---------------------------------|
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**Vorläufige Daten
Preliminary Data**

**Diode-Chopper / Diode-Chopper
Höchstzulässige Werte / Maximum Rated Values**

| | | | | |
|---|--|-----------|------|-----------------------|
| Periodische Spitzensperrspannung Repetitive peak reverse voltage | $T_{vj} = 25^{\circ}\text{C}$ | V_{RRM} | 1200 | V |
| Dauergleichstrom Continuous DC forward current | | I_F | 900 | A |
| Periodischer Spitzenstrom Repetitive peak forward current | $t_P = 1\text{ ms}$ | I_{FRM} | 1800 | A |
| Grenzlastintegral I^2t - value | $V_R = 0\text{ V}, t_P = 10\text{ ms}, T_{vj} = 125^{\circ}\text{C}$ $V_R = 0\text{ V}, t_P = 10\text{ ms}, T_{vj} = 150^{\circ}\text{C}$ | I^2t | 150 | kA^2s |
| | | | 145 | kA^2s |

Charakteristische Werte / Characteristic Values

| | | | min. | typ. | max. | |
|---|---|--------------------------------|-----------|------|------|--------------------|
| Durchlassspannung Forward voltage | $I_F = 900\text{ A}, V_{GE} = 0\text{ V}$ | $T_{vj} = 25^{\circ}\text{C}$ | V_F | 1,65 | 2,15 | V |
| | $I_F = 900\text{ A}, V_{GE} = 0\text{ V}$ | $T_{vj} = 125^{\circ}\text{C}$ | | 1,55 | | V |
| | $I_F = 900\text{ A}, V_{GE} = 0\text{ V}$ | $T_{vj} = 150^{\circ}\text{C}$ | | 1,50 | | V |
| Rückstromspitze Peak reverse recovery current | $I_F = 900\text{ A}, -di_F/dt = 4800\text{ A}/\mu\text{s} (T_{vj}=150^{\circ}\text{C})$ $V_R = 600\text{ V}$ | $T_{vj} = 25^{\circ}\text{C}$ | I_{RM} | 560 | | A |
| | | $T_{vj} = 125^{\circ}\text{C}$ | | 770 | | A |
| | | $T_{vj} = 150^{\circ}\text{C}$ | | 820 | | A |
| Sperrverzögerungsladung Recovered charge | $I_F = 900\text{ A}, -di_F/dt = 4800\text{ A}/\mu\text{s} (T_{vj}=150^{\circ}\text{C})$ $V_R = 600\text{ V}$ | $T_{vj} = 25^{\circ}\text{C}$ | Q_r | 110 | | μC |
| | | $T_{vj} = 125^{\circ}\text{C}$ | | 200 | | μC |
| | | $T_{vj} = 150^{\circ}\text{C}$ | | 225 | | μC |
| Abschaltenergie pro Puls Reverse recovery energy | $I_F = 900\text{ A}, -di_F/dt = 4800\text{ A}/\mu\text{s} (T_{vj}=150^{\circ}\text{C})$ $V_R = 600\text{ V}$ | $T_{vj} = 25^{\circ}\text{C}$ | E_{rec} | 50,0 | | mJ |
| | | $T_{vj} = 125^{\circ}\text{C}$ | | 90,0 | | mJ |
| | | $T_{vj} = 150^{\circ}\text{C}$ | | 105 | | mJ |
| Wärmewiderstand, Chip bis Gehäuse Thermal resistance, junction to case | pro Diode / per diode | R_{thJC} | | | 37,0 | K/kW |
| Wärmewiderstand, Gehäuse bis Kühlkörper Thermal resistance, case to heatsink | pro Diode / per diode $\lambda_{Paste} = 1\text{ W}/(\text{m}\cdot\text{K}) / \lambda_{grease} = 1\text{ W}/(\text{m}\cdot\text{K})$ | R_{thCH} | | 20,0 | | K/kW |
| Temperatur im Schaltbetrieb Temperature under switching conditions | | $T_{vj op}$ | -40 | | 150 | $^{\circ}\text{C}$ |

**Diode, Revers / Diode, Reverse
Höchstzulässige Werte / Maximum Rated Values**

| | | | | |
|---|--|-----------|------|-----------------------|
| Periodische Spitzensperrspannung Repetitive peak reverse voltage | $T_{vj} = 25^{\circ}\text{C}$ | V_{RRM} | 1200 | V |
| Dauergleichstrom Continuous DC forward current | | I_F | 120 | A |
| Periodischer Spitzenstrom Repetitive peak forward current | $t_P = 1\text{ ms}$ | I_{FRM} | 240 | A |
| Grenzlastintegral I^2t - value | $V_R = 0\text{ V}, t_P = 10\text{ ms}, T_{vj} = 125^{\circ}\text{C}$ | I^2t | 0,17 | kA^2s |

Charakteristische Werte / Characteristic Values

| | | | min. | typ. | max. | |
|---|---|--------------------------------|-------|------|------|--------------------|
| Durchlassspannung Forward voltage | $I_F = 120\text{ A}, V_{GE} = 0\text{ V}$ $I_F = 120\text{ A}, V_{GE} = 0\text{ V}$ | $T_{vj} = 25^{\circ}\text{C}$ | V_F | 1,65 | 2,15 | V |
| | | $T_{vj} = 125^{\circ}\text{C}$ | | 1,65 | | V |
| Wärmewiderstand, Chip bis Gehäuse Thermal resistance, junction to case | pro Diode / per diode | R_{thJC} | | | 340 | K/kW |
| Wärmewiderstand, Gehäuse bis Kühlkörper Thermal resistance, case to heatsink | pro Diode / per diode $\lambda_{Paste} = 1\text{ W}/(\text{m}\cdot\text{K}) / \lambda_{grease} = 1\text{ W}/(\text{m}\cdot\text{K})$ | R_{thCH} | | 170 | | K/kW |
| Temperatur im Schaltbetrieb Temperature under switching conditions | | $T_{vj op}$ | -40 | | 150 | $^{\circ}\text{C}$ |

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|-----------------|---------------------------------|
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| approved by: IB | revision: 2.0 |



**Vorläufige Daten
Preliminary Data**

NTC-Widerstand / NTC-Thermistor

Charakteristische Werte / Characteristic Values

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

Modul / Module

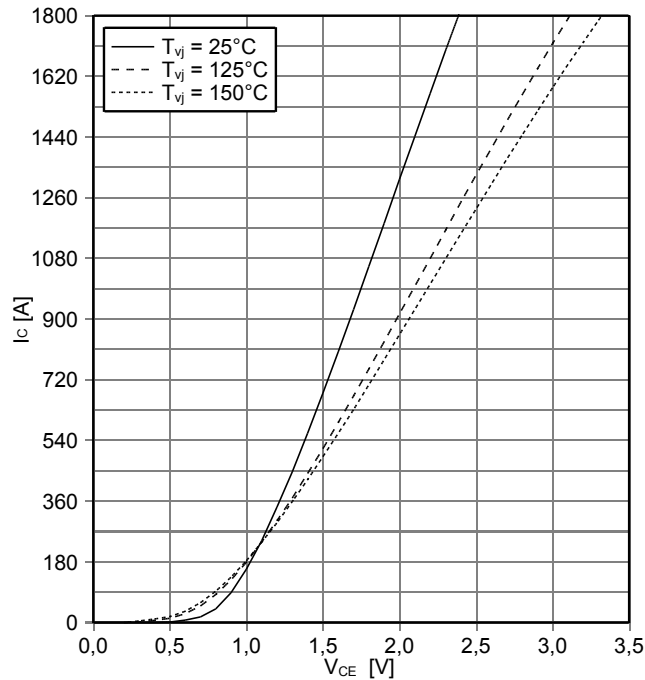
| | | | | | | |
|--|--|--------------------|------|-------------------------|------|------------------|
| Isolations-Prüfspannung Isolation test voltage | RMS, f = 50 Hz, t = 1 min. | V_{ISOL} | | 4,0 | | kV |
| Material Modulgrundplatte Material of module baseplate | | | | Cu | | |
| Innere Isolation Internal insulation | Basisisolation (Schutzklasse 1, EN61140) basic insulation (class 1, IEC 61140) | | | Al_2O_3 | | |
| Kriechstrecke Creepage distance | Kontakt - Kühlkörper / terminal to heatsink Kontakt - Kontakt / terminal to terminal | | | 33,0 33,0 | | mm |
| Luftstrecke Clearance | Kontakt - Kühlkörper / terminal to heatsink Kontakt - Kontakt / terminal to terminal | | | 19,0 19,0 | | mm |
| Vergleichszahl der Kriechwegbildung Comperative tracking index | | CTI | | > 400 | | |
| | | | min. | typ. | max. | |
| Modulstreuintuktivität Stray inductance module | | L_{sCE} | | 18 | | nH |
| Modulleitungswiderstand, Anschlüsse - Chip Module lead resistance, terminals - chip | $T_C = 25^\circ\text{C}$, pro Schalter / per switch | $R_{\text{CC+EE}}$ | | 0,30 | | m Ω |
| Lagertemperatur Storage temperature | | T_{stg} | -40 | | 150 | $^\circ\text{C}$ |
| 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 |
| Anzugsdrehmoment f. elektr. Anschlüsse Terminal connection torque | Schraube M4 - Montage gem. gültiger Applikationsschrift Screw M4 - Mounting according to valid application note | M | 1,8 | - | 2,1 | Nm |
| | Schraube M8 - Montage gem. gültiger Applikationsschrift Screw M8 - Mounting according to valid application note | | 8,0 | - | 10 | Nm |
| Gewicht Weight | | G | | 825 | | g |

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Vorläufige Daten
Preliminary Data

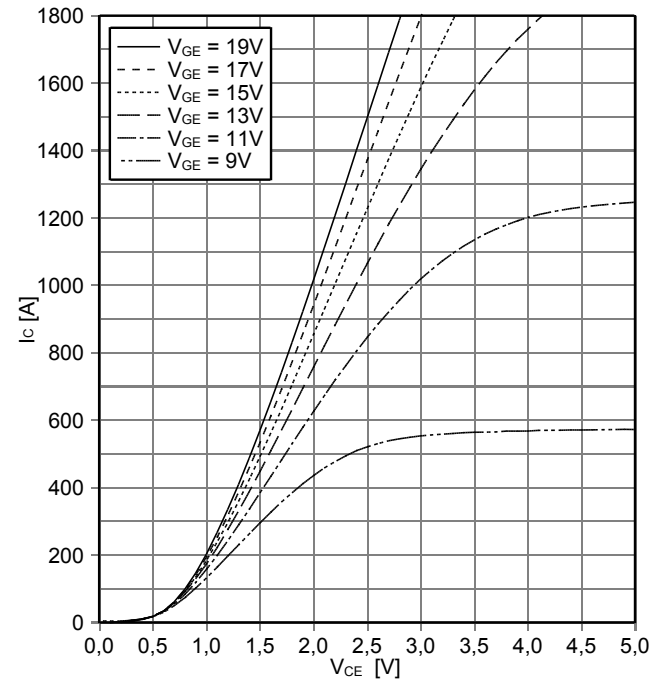
Ausgangskennlinie IGBT-Chopper (typisch)
output characteristic IGBT-Chopper (typical)

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



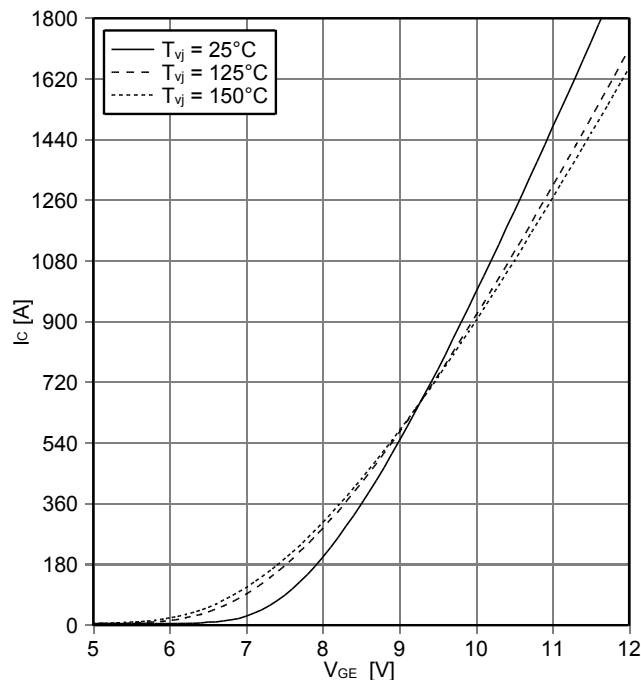
Ausgangskennlinienfeld IGBT-Chopper (typisch)
output characteristic IGBT-Chopper (typical)

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



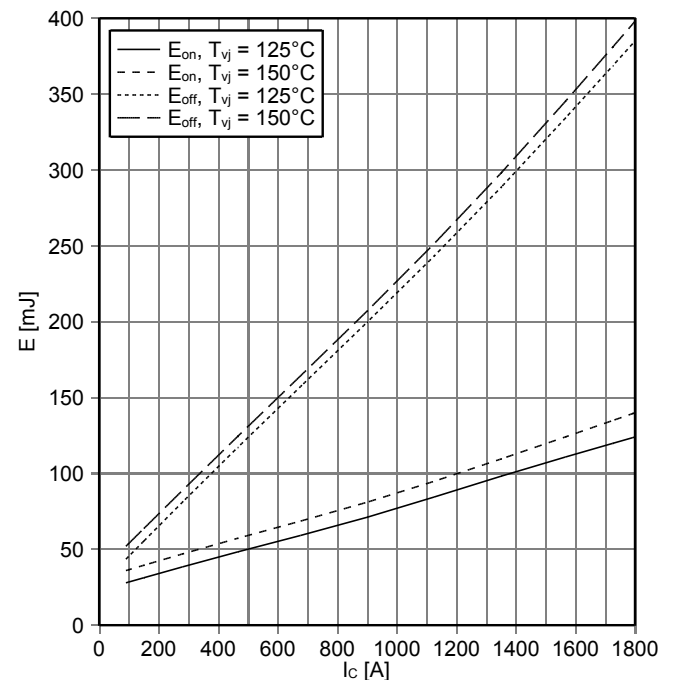
Übertragungscharakteristik IGBT-Chopper (typisch)
transfer characteristic IGBT-Chopper (typical)

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



Schaltverluste IGBT-Chopper (typisch)
switching losses IGBT-Chopper (typical)

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



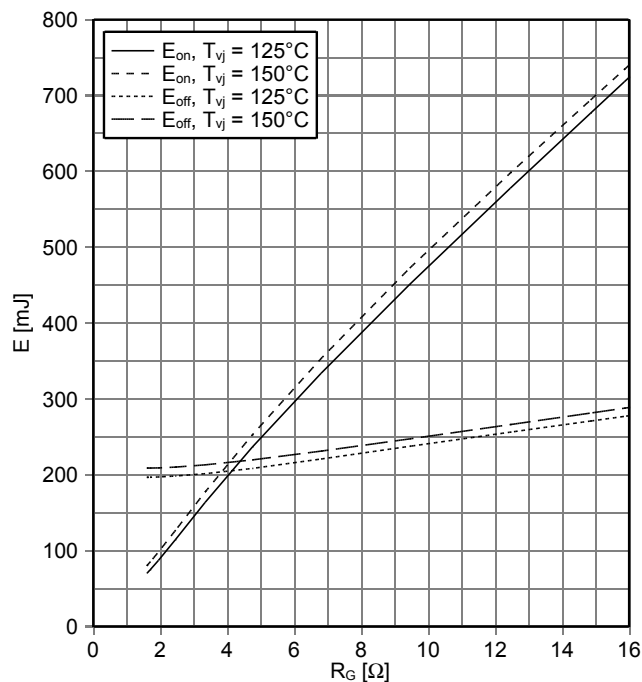
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| approved by: IB | revision: 2.0 |



Vorläufige Daten
Preliminary Data

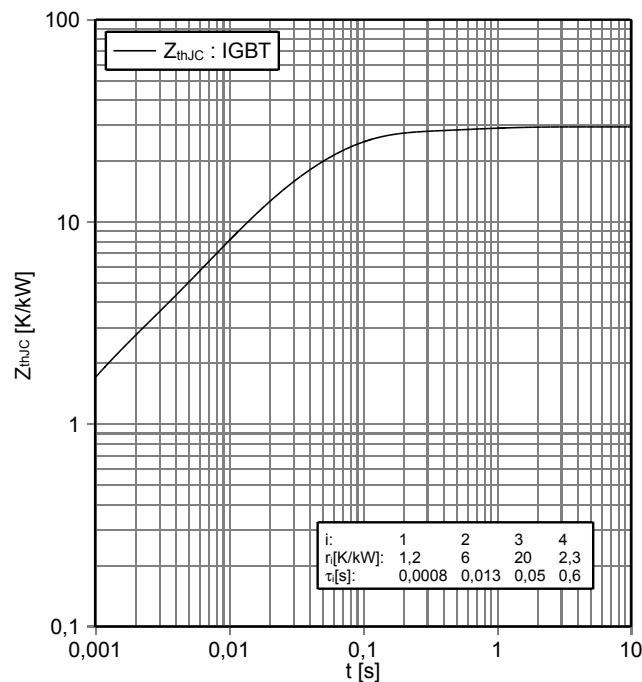
Schaltverluste IGBT-Chopper (typisch)
switching losses IGBT-Chopper (typical)

$E_{on} = f(R_G), E_{off} = f(R_G)$
 $V_{GE} = \pm 15\text{ V}, I_C = 900\text{ A}, V_{CE} = 600\text{ V}$



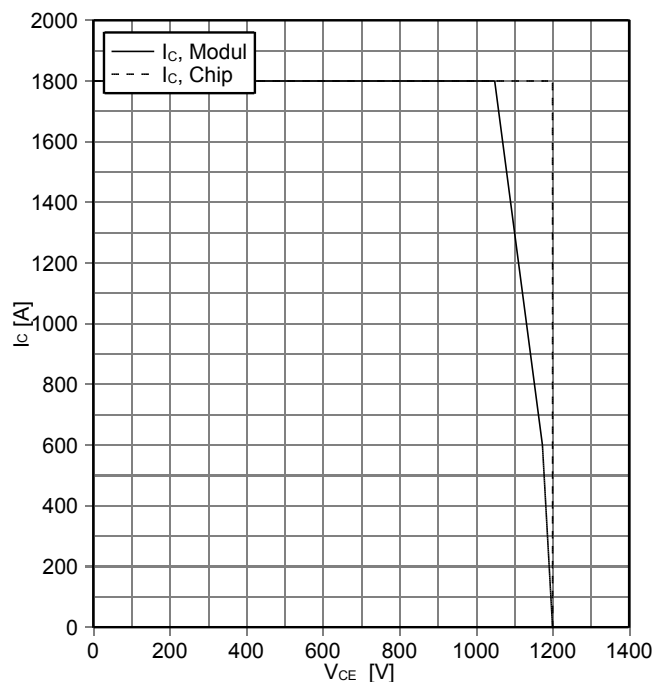
Transienter Wärmewiderstand IGBT-Chopper
transient thermal impedance IGBT-Chopper

$Z_{thJC} = f(t)$



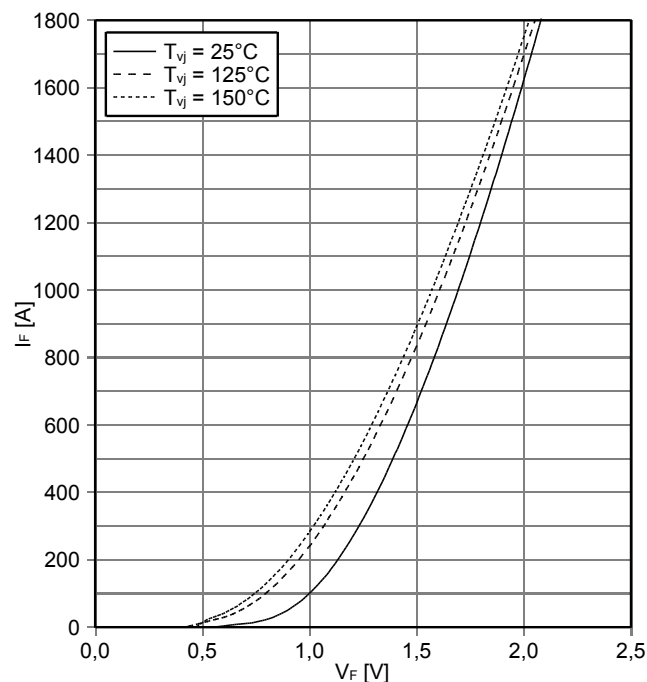
Sicherer Rückwärts-Arbeitsbereich IGBT-Chopper (RBSOA)
reverse bias safe operating area IGBT-Chopper (RBSOA)

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



Durchlasskennlinie der Diode-Chopper (typisch)
forward characteristic of Diode-Chopper (typical)

$I_F = f(V_F)$

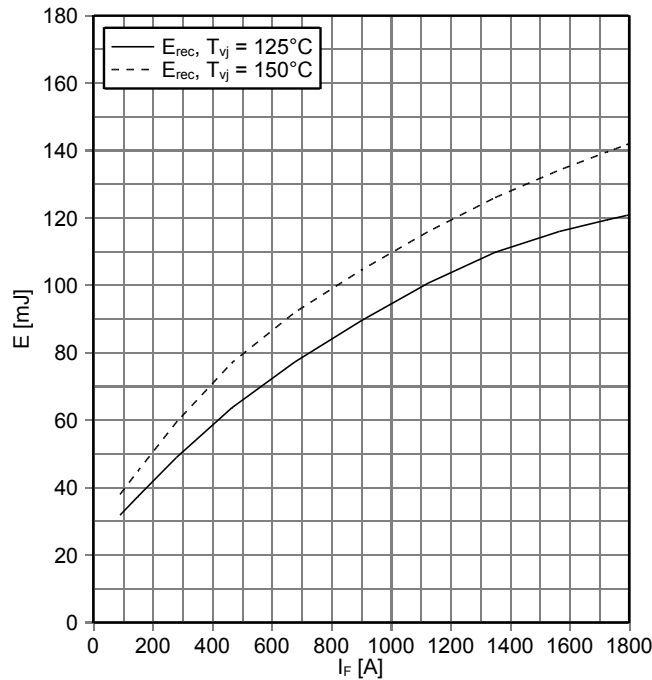


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Preliminary Data

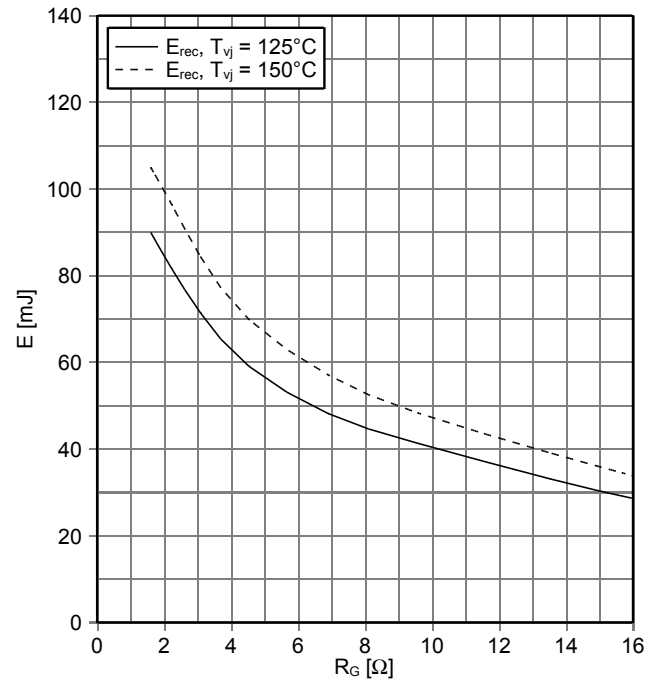
Schaltverluste Diode-Chopper (typisch)
switching losses Diode-Chopper (typical)

$E_{rec} = f(I_F)$
 $R_{Gon} = 1.6 \Omega, V_{CE} = 600 V$



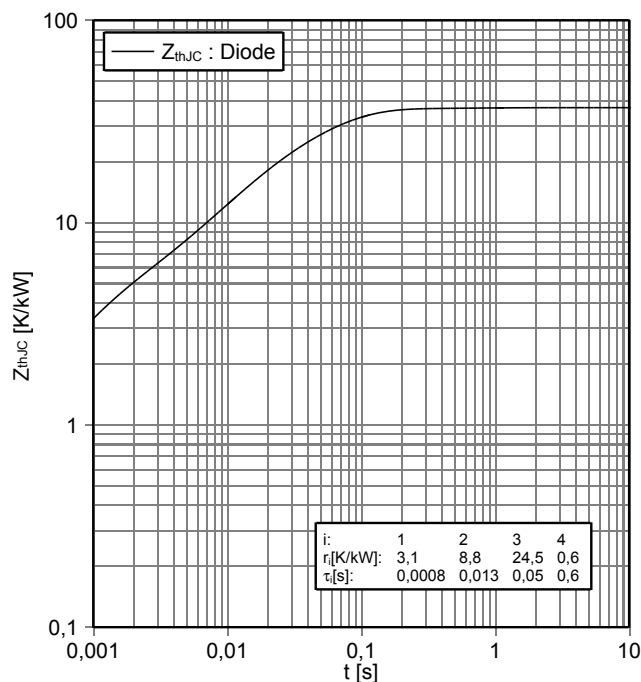
Schaltverluste Diode-Chopper (typisch)
switching losses Diode-Chopper (typical)

$E_{rec} = f(R_G)$
 $I_F = 900 A, V_{CE} = 600 V$



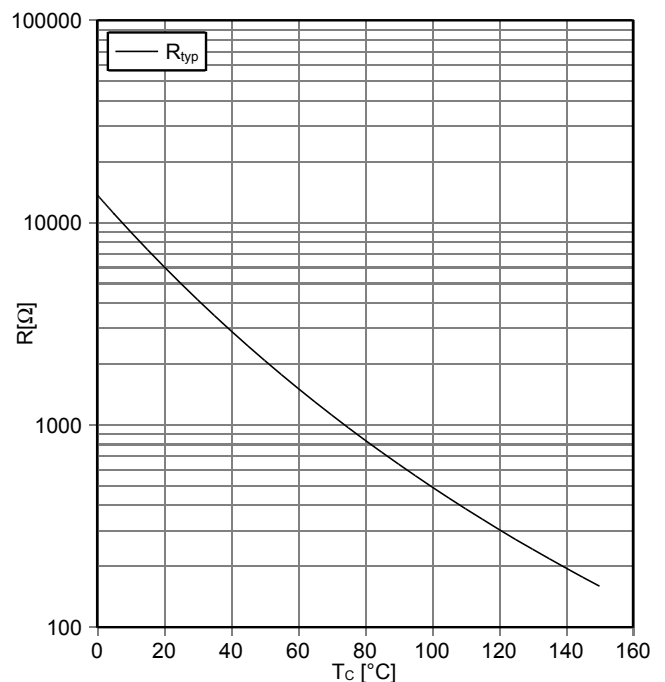
Transienter Wärmewiderstand Diode-Chopper
transient thermal impedance Diode-Chopper

$Z_{thJC} = f(t)$



NTC-Widerstand-Temperaturkennlinie (typisch)
NTC-Thermistor-temperature characteristic (typical)

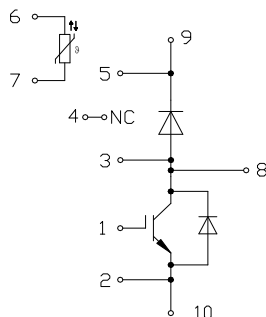
$R = f(T)$



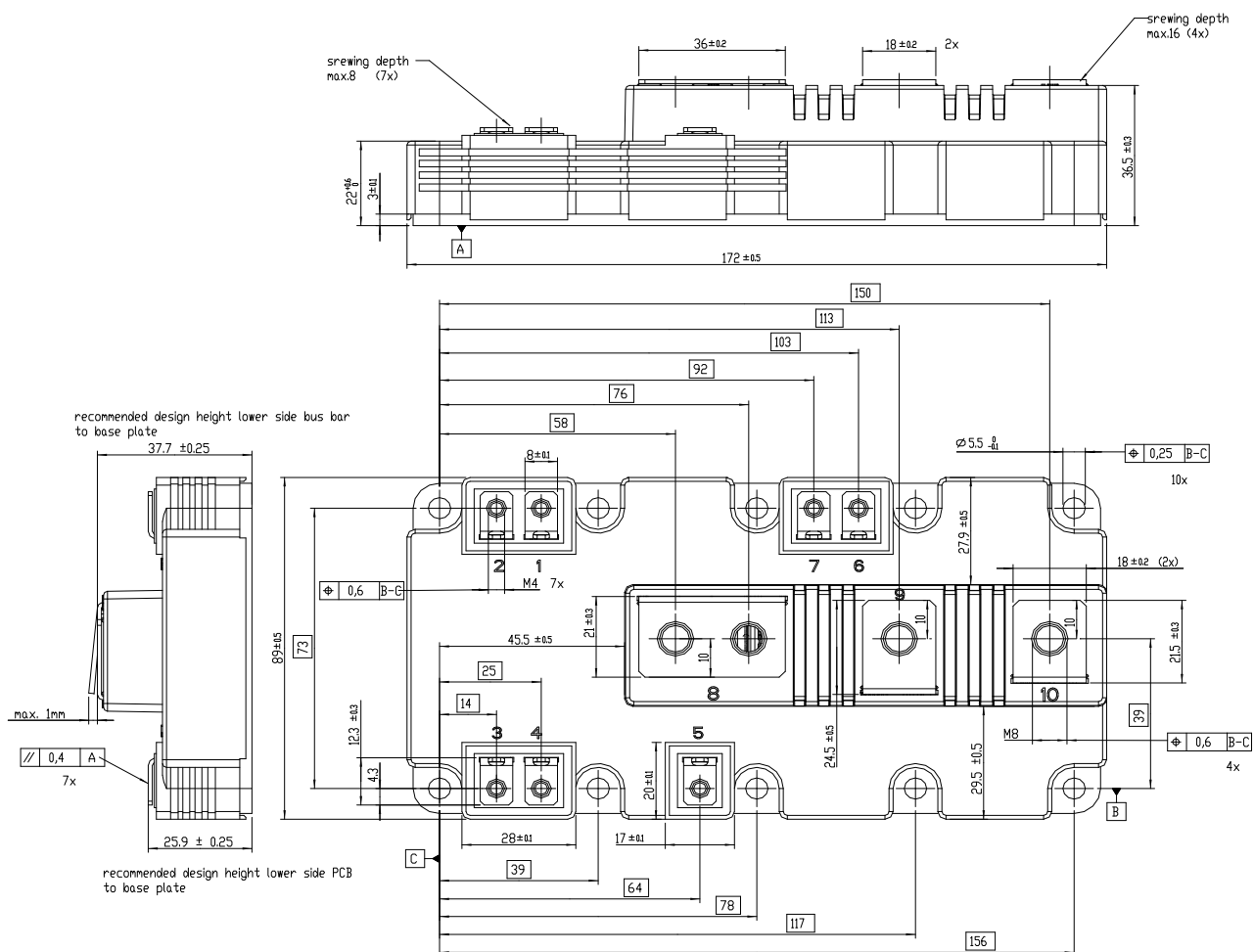
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| approved by: IB | revision: 2.0 |

Vorläufige Daten
Preliminary Data

Schaltplan / circuit_diagram_headline



Gehäuseabmessungen / package outlines



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|-----------------|---------------------------------|
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**Vorläufige Daten
Preliminary Data**

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