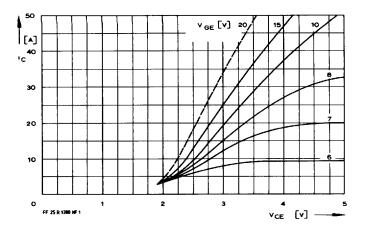
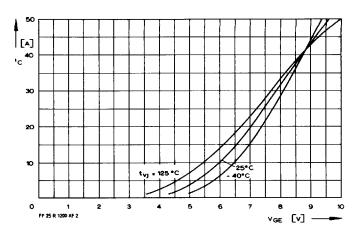
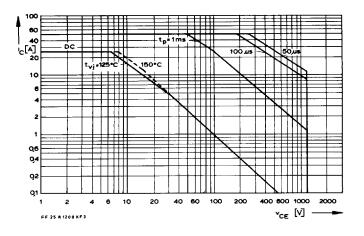
| | Transistor | | Transistor | | | Thermische Eigenschaften Thermal properties | | | | |
|---|---------------------------|---|--------------------------------------|-----------------------|------|---|--|-------------------|-------------|------|
| Hotolstruss | Elektrische Eigenschaften | | Electrical prope | Electrical properties | | | | | | °C/W |
| 1200 V | | 3 | | | | R_{thGK} | pro Baustein / per mod | | , | °C/W |
| The content of the | | <u>ulässige Werte</u> | Maximum rated | | | | pro Zweig / per arm | | 0,12 | °C/W |
| | V_{CES} | | | 1200 | V | • | | | 150 | °C |
| P _{est} V _{Ce} V | Ic | | | 25 | Α | t _{vj op} | | | 0 / + 150 | °C |
| Voc Vo | I _{CRM} | t _p = 1 ms | | 50 | Α | ₹ _{stg} | | - 4(| J / + 125 | -0 |
| V _{CE} V | P _{tot} | t _C = 25°C | | 250 | w | | | | | |
| Veg | | _ | | 20 | V | Inversdic | ode | Inverse diode | | |
| Characteristische Werte | | | | 20 | V | Elektrisc | he Eigenschaften | Electrical prop | erties | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | ·EG | | | | | | _ | • • | | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | Charakte | eristische Werte | Characteristic va | alues | | | iassige vveite | waxiiidiii lated | | Α |
| | | | | | V | | t _n =1 ms | | | |
| Voz ∈ 5V, (n) = 25 mA, t _y = 25°C min. 3 Voz ∈ 5V, (n) = 25 mA, t _y = 25°C min. 6 Voz ∈ 5V, (n) = 25 mA, t _y = 25°C min. 6 Voz ∈ 10V, Voz ∈ 10V, Voz ∈ 20V, Voz ∈ 20V, Voz ∈ 20V, t _y = 25°C min. 6 Voz ∈ 10Mz, voz ∈ 20V, Voz ∈ 20V, t _y = 25°C min. 6 Voz ∈ 10Mz, voz ∈ 20V, voz ∈ 20V, t _y = 25°C vp. 0.2 Max ∈ 25°C vp. 0.2 | VCE sat | | | | | ·FHM | φe | | | |
| Vos = 5 V Vos = 5 V Vos = 5 V Vos = 0 V Vos | Voe (th) | $V_{CE} = 5 \text{ V}.$ $i_{C} = 25 \text{ n}$ | A . $t_{vi} = 25^{\circ}C$ min | | | | | | | |
| Composition | ·GE (III) | $v_{CE} = 5 \text{ V}.$ $i_{C} = 25 \text{ m}$ | nA. t _u = 25°C max | | | | | | | |
| f ₀ = 1 MHz f ₀ = 25°C yp 2,8 nF VF = 25 A Voca = 0 V f ₀ = 25°C yp 1.6 V Voca = 120 V Voca = 0 V f ₀ = 25°C yp 1.6 V Voca = 120 V Voca = 0 V f ₀ = 25°C yp 1.6 V Voca = 120 V Voca = 0 V f ₀ = 25°C yp 1.6 V Voca = 120 V Voca = 0 V f ₀ = 25°C yp 1.6 V Voca = 120 V Voca = 0 V f ₀ = 25°C yp 1.6 V Voca = 120 V Voca = | Cioc | | | • | • | Charaktei | ristische Werte | Characteristic va | alues | |
| | 9165 | | | 2.8 | nF | | | | | V |
| Vog = 1200 V, Vog = 0 V, Vog = 0 V, Vog = 5 C, Vog = 1 mA | İCES | | | | | • | $i_E = 25 \text{ A}, V_{GE} = 0 \text{ V}, t_{VI} = 0 \text{ V}$ | = 25°C ma | | V |
| iaes Vog = 20 V. t _{v1} = 25°C, t _{v2} = 50°C, t _{v3} = 50° nA V _{VG} = 10 V. t _{v3} = 25°C, t _{v3} = 25°C, t _{v3} = 25°C, t _{v3} = 50° nA V _{VG} = 10 V. t _{v3} = 25°C, t _{v3} = 25°C, t _{v3} = 50° nA V _{VG} = 10 V. t _{v3} = 25°C, t _{v3} = 50° nA V _{VG} = 10 V. t _{v3} = 25°C, t _{v3} = 50° nA V _{VG} = 10 V. t _{v3} = 25°C, t _{v3} = 50° nA V _{VG} = 10 V. t _{v3} = 125°C typ. 14 A t _{OM} = 25 A, V _{OG} = 600 V, V _{VG} = 15 V, V _{VG} = 15 V, V _{VG} = 15 V. V _{VG} = 10 V. V _{VG} = 15 V. V _{VG} = 10 V. V _{VG} | OES | v _{CE} = 1200 V, v _{GE} = 0 | $t_{vi} = 125^{\circ} \text{C typ.}$ | | | I _{RM} | | | • | |
| VGE = 20 V | İges | | | | | -1 1141 | | • | . 7 | Α |
| Fig. S Veg. = 20 V | GES | $v_{GE} = 20 \text{ V}.$ $t_{vi} = 25^{\circ}0$ | C. max | | | | $i_{EM} = 25 \text{ A}$, $-di_{E}/dt = 100$ | OA/μs | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | İeas | | | | | | | | . 14 | Α |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Luo | $v_{EG} = 20 \text{ V}$, $t_{vi} = 25^{\circ}$ | C. max | | nΑ | Q_r | $i_{EM} = 25 A$, $-di_E/dt = 100$ | 0 A/μs | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | ton | | ον, | | | • | | | . 0,9 | μAs |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | -011 | | | 0,4 | μS | | $i_{EM} = 25 \text{ A}, -di_{E}/dt = 100$ | 0 A/μs | | • |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | , | • | | | | . 3,2 | μAs |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | 0,5 | μS | | 2.3 7.1, | • | | • |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | t _s | | | • | • | | | | | |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | -3 | | | | | | | | | |
| IcM = 25 A, V _{CE} = 600 V, V _{LF} = 15 V, V _{CE} = 15 V, V _{LR} = 1000 V, V _{LR} = 15 V, V _{LR} = 15 V, V _{LR} = 1000 | | $R_G = 51 \Omega$, $t_{vi} = 25^{\circ}$ | C typ. | 0,5 | μS | Thermiso | che Eigenschaften | Thermal proper | rties | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | $i_{CM} = 25 A$, $v_{CE} = 60$ | | | | R_{thJC} | DC, pro Baustein / per | module | 0,5 | °C/W |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | V, | | | | DC, pro Zweig / per arm | n | 1,0 ' | °C/W |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | $R_G = 51 \Omega$, $t_{vi} = 125$ | °C typ. | 0,6 | μS | R_{thCK} | pro Baustein / per mod | ule | 0,06 | °C/W |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | t_f | | 0 V, | | | | pro Zweig / per arm | | 0,12 | °C/W |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | $v_{LF} = 15 \text{ V}, v_{LR} = 15$ | V, | | | | | | | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | $R_G = 51 \Omega$, $t_{vj} = 25^{\circ}$ | | 0,2 | μs | t _{vj max} | | | | - |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | t _{vjop} | | | | |
| | | | | | | t_{stg} | | - 40 |) / + 125 ' | °C |
| | | $R_G = 51 \Omega$, $t_{v_j} = 125$ | °C typ. | 0,2 | 5 μs | | | | | |
| | Bedingui | ngen für den | Conditions for pr | rotection | | Innere Is | olation | Internal insulat | ion | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | | | | | |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | | Visoi | RMS (f=50 Hz, t=1 min | _ | | kV |
| $R_G=51~\Omega, i_{CMK~2}\approx 250~A, i_{CMK~2}\approx 200~A,$ $Mechanische~Eigenschaften Mechanical~properties$ $G 205~g$ $M~1 3 Nm$ $M~2 3 Nm$ $M~2 3 Nm$ $M~2 000000000000000000000000000000000000$ | | | | | | 1002 | , | • | • | |
| t _{vj} = 125°C, i _{CMK 2} ≈ 200 Å, Mechanische Eigenschaften Mechanical properties G 205 g M 1 3 Nm M 2 3 Nm Maßbild outline | | | | | | | | | | |
| Mechanische Eigenschaften G M1 M2 Maßbild Mechanical properties 9 M1 M2 Maßbild Multine | | | | | | | | | | |
| G 205 g M 1 3 Nm M 2 3 Nm Maβbild outline | | , | | | | Mechanis | sche Eigenschaften | Mechanical pro | perties | |
| M 1 3 Nm M 2 3 Nm Maßbild outline | | | | | | | J | • | • | |
| M 2 3 Nm Maßbild outline | | | | | | G | | | 205 (| g |
| Maßbild outline | | | | | | M 1 | | | 3 | Nm |
| | | | | | | M 2 | | | 3 ! | Nm |
| | | | | | | | | | | |



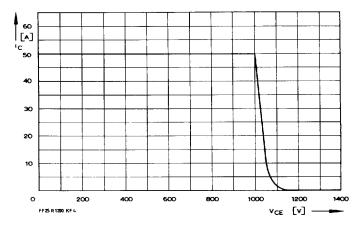
1 Kollektor-Emitter-Spannung im Sättigungsbereich (typisch). Collector-emitter-voltage in saturation region (typical). $t_{v_l} = 25^\circ C$



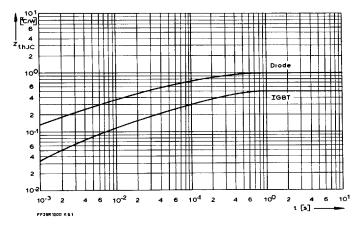
2 Übertragungscharakteristik (typisch). Transfer characteristic (typical). $v_{CE} = 5 \ V$



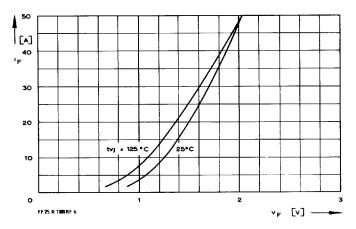
3 Vorwärts-Arbeitsbereich FBSOA (Einzelimpuls, nicht periodisch). Forward biased safe operating area (single pulse, non repetitive). $t_C=25^{\circ}C$



4 Ruckwärts-Arbeitsbereich RBSOA. Reverse biased safe operating area. $t_{v_l} = 125^{\circ}C$, $v_{LF} = v_{LR} = 15$ V, $R_G = 51$ Ω



5 Transienter innerer Wärmewiderstand je Zweig (DC). Transient thermal impedance per arm (DC).



6 Durchlaßkennlinie der Inversdiode (typisch). Forward characteristic of the inverse diode (typical). $v_{GE}=0\ V$