


**Netz-Thyristor**  
**Phase Control Thyristor**
**T660N**
**Elektrische Eigenschaften / Electrical properties**

Höchstzulässige Werte / Maximum rated values

|                                                                                                                    |                                                                                                                 |                                  |                                                                  |
|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------|
| Periodische Vorwärts- und Rückwärts-Spitzensperrspannung<br>repetitive peak forward off-state and reverse voltages | $T_{vj} = -40^{\circ}\text{C} \dots T_{vj \max}$                                                                | $V_{\text{DRM}}, V_{\text{RRM}}$ | 2200 V<br>2400 V<br>2600 V                                       |
| Vorwärts-Stossspitzensperrspannung<br>non-repetitive peak forward off-state voltage                                | $T_{vj} = -40^{\circ}\text{C} \dots T_{vj \max}$                                                                | $V_{\text{DSM}}$                 | 2200 V<br>2400 V<br>2600 V                                       |
| Rückwärts-Stossspitzensperrspannung<br>non-repetitive peak reverse voltage                                         | $T_{vj} = +25^{\circ}\text{C} \dots T_{vj \max}$                                                                | $V_{\text{RSM}}$                 | 2300 V<br>2500 V<br>2700 V                                       |
| Durchlassstrom-Grenzeffektivwert<br>maximum RMS on-state current                                                   |                                                                                                                 | $I_{\text{TRMSM}}$               | 1500 A                                                           |
| Dauergrenzstrom<br>average on-state current                                                                        | $T_C = 85^{\circ}\text{C}$                                                                                      | $I_{\text{TAVM}}$                | 660 A                                                            |
| Dauergrenzstrom<br>average on-state current                                                                        | $T_C = 55^{\circ}\text{C}, \theta = 180^{\circ}\sin, t_P = 10 \text{ ms}$                                       | $I_{\text{TAVM}}$                | 970 A                                                            |
| Durchlaßstrom-Effektivwert<br>RMS on-state current                                                                 |                                                                                                                 | $I_{\text{TRMS}}$                | 1520 A                                                           |
| Stossstrom-Grenzwert<br>surge current                                                                              | $T_{vj} = 25^{\circ}\text{C}, t_P = 10 \text{ ms}$<br>$T_{vj} = T_{vj \max}, t_P = 10 \text{ ms}$               | $I_{\text{TSM}}$                 | 13000 A<br>11500 A                                               |
| Grenzlastintegral<br>$I^2t$ -value                                                                                 | $T_{vj} = 25^{\circ}\text{C}, t_P = 10 \text{ ms}$<br>$T_{vj} = T_{vj \max}, t_P = 10 \text{ ms}$               | $I^2t$                           | 845 $10^3 \text{ A}^2\text{s}$<br>660 $10^3 \text{ A}^2\text{s}$ |
| Kritische Stromsteilheit<br>critical rate of rise of on-state current                                              | DIN IEC 60747-6<br>$f = 50 \text{ Hz}, i_{\text{GM}} = 1 \text{ A}, di_{\text{G}}/dt = 1 \text{ A}/\mu\text{s}$ | $(di_{\text{T}}/dt)_{\text{cr}}$ | 150 A/ $\mu\text{s}$                                             |
| Kritische Spannungssteilheit<br>critical rate of rise of off-state voltage                                         | $T_{vj} = T_{vj \max}, V_{\text{D}} = 0,67 V_{\text{DRM}}$<br>5.Kennbuchstabe / 5 <sup>th</sup> letter F        | $(dv_{\text{D}}/dt)_{\text{cr}}$ | 1000 V/ $\mu\text{s}$                                            |

**Charakteristische Werte / Characteristic values**

|                                                                                                                                                          |                                                                                                                                                                                                      |                              |                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------|
| Durchlassspannung<br>on-state voltage                                                                                                                    | $T_{vj} = T_{vj \max}, i_{\text{T}} = 2850 \text{ A}$<br>$T_{vj} = T_{vj \max}, i_{\text{T}} = 650 \text{ A}$                                                                                        | $V_{\text{T}}$               | max. 2,53 V<br>max. 1,32 V                        |
| Schleusenspannung<br>threshold voltage                                                                                                                   | $T_{vj} = T_{vj \max}$                                                                                                                                                                               | $V_{(\text{TO})}$            | 1,00 V                                            |
| Ersatzwiderstand<br>slope resistance                                                                                                                     | $T_{vj} = T_{vj \max}$                                                                                                                                                                               | $r_{\text{T}}$               | 0,500 m $\Omega$                                  |
| Durchlasskennlinie<br>on-state characteristic<br>$v_{\text{T}} = A + B \cdot i_{\text{T}} + C \cdot \ln(i_{\text{T}} + 1) + D \cdot \sqrt{i_{\text{T}}}$ | $T_{vj} = T_{vj \max}$                                                                                                                                                                               | A=<br>B=<br>C=<br>D=         | 1,245E+00<br>3,716E-04<br>-1,040E-01<br>1,970E-02 |
| Zündstrom<br>gate trigger current                                                                                                                        | $T_{vj} = 25^{\circ}\text{C}, V_{\text{D}} = 12 \text{ V}$                                                                                                                                           | $I_{\text{GT}}$              | max. 250 mA                                       |
| Zündspannung<br>gate trigger voltage                                                                                                                     | $T_{vj} = 25^{\circ}\text{C}, V_{\text{D}} = 12 \text{ V}$                                                                                                                                           | $V_{\text{GT}}$              | max. 2,2 V                                        |
| Nicht zündender Steuerstrom<br>gate non-trigger current                                                                                                  | $T_{vj} = T_{vj \max}, V_{\text{D}} = 12 \text{ V}$<br>$T_{vj} = T_{vj \max}, V_{\text{D}} = 0,5 V_{\text{DRM}}$                                                                                     | $I_{\text{GD}}$              | max. 10 mA<br>max. 5 mA                           |
| Nicht zündende Steuerspannung<br>gate non-trigger voltage                                                                                                | $T_{vj} = T_{vj \max}, V_{\text{D}} = 0,5 V_{\text{DRM}}$                                                                                                                                            | $V_{\text{GD}}$              | max. 0,25 V                                       |
| Haltestrom<br>holding current                                                                                                                            | $T_{vj} = 25^{\circ}\text{C}, V_{\text{D}} = 12 \text{ V}$                                                                                                                                           | $I_{\text{H}}$               | max. 300 mA                                       |
| Einraststrom<br>latching current                                                                                                                         | $T_{vj} = 25^{\circ}\text{C}, V_{\text{D}} = 12 \text{ V}, R_{\text{GK}} \geq 10 \Omega$<br>$i_{\text{GM}} = 1 \text{ A}, di_{\text{G}}/dt = 1 \text{ A}/\mu\text{s}, t_{\text{g}} = 20 \mu\text{s}$ | $I_{\text{L}}$               | max. 1500 mA                                      |
| Vorwärts- und Rückwärts-Sperrstrom<br>forward off-state and reverse current                                                                              | $T_{vj} = T_{vj \max}$<br>$V_{\text{D}} = V_{\text{DRM}}, V_{\text{R}} = V_{\text{RRM}}$                                                                                                             | $i_{\text{D}}, i_{\text{R}}$ | max. 100 mA                                       |
| Zündverzug<br>gate controlled delay time                                                                                                                 | DIN IEC 60747-6<br>$T_{vj} = 25^{\circ}\text{C}, i_{\text{GM}} = 1 \text{ A}, di_{\text{G}}/dt = 1 \text{ A}/\mu\text{s}$                                                                            | $t_{\text{gd}}$              | max. 4 $\mu\text{s}$                              |

|              |            |                      |            |
|--------------|------------|----------------------|------------|
| prepared by: | H.Sandmann | date of publication: | 2009-03-04 |
| approved by: | M.Leifeld  | revision:            | 1.0        |


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**Elektrische Eigenschaften / Electrical properties**  
 Charakteristische Werte / Characteristic values

|                                                   |                                                                                                                                                                                          |       |      |     |         |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|-----|---------|
| Freiwerdezeit<br>circuit commutated turn-off time | $T_{vj} = T_{vj\ max}, I_{TM} = I_{TAVM}$<br>$V_{RM} = 100\ V, V_{DM} = 0,67\ V_{DRM}$<br>$dv_D/dt = 20\ V/\mu s, -di_T/dt = 10\ A/\mu s$<br>4. Kennbuchstabe / 4 <sup>th</sup> letter O | $t_q$ | typ. | 300 | $\mu s$ |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|-----|---------|

**Thermische Eigenschaften / Thermal properties**

|                                                                        |                                                                                                                                                                                                                                                                  |               |      |            |              |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------|------------|--------------|
| Innerer Wärmewiderstand<br>thermal resistance, junction to case        | <u>Kühlfläche / cooling surface</u><br>beidseitig / two-sided, $\theta = 180^\circ \sin$<br>beidseitig / two-sided, DC<br>Anode / anode, $\theta = 180^\circ \sin$<br>Anode / anode, DC<br>Kathode / cathode, $\theta = 180^\circ \sin$<br>Kathode / cathode, DC | $R_{thJC}$    | max. | 0,0330     | $^\circ C/W$ |
|                                                                        |                                                                                                                                                                                                                                                                  |               | max. | 0,0300     | $^\circ C/W$ |
|                                                                        |                                                                                                                                                                                                                                                                  |               | max. | 0,0537     | $^\circ C/W$ |
|                                                                        |                                                                                                                                                                                                                                                                  |               | max. | 0,0511     | $^\circ C/W$ |
|                                                                        |                                                                                                                                                                                                                                                                  |               | max. | 0,0816     | $^\circ C/W$ |
|                                                                        |                                                                                                                                                                                                                                                                  |               | max. | 0,0732     | $^\circ C/W$ |
| Übergangs-Wärmewiderstand<br>thermal resistance, case to heatsink      | <u>Kühlfläche / cooling surface</u><br>beidseitig / two-sides<br>einseitig / single-sides                                                                                                                                                                        | $R_{thCH}$    | max. | 0,005      | $^\circ C/W$ |
|                                                                        |                                                                                                                                                                                                                                                                  |               | max. | 0,010      | $^\circ C/W$ |
| Höchstzulässige Sperrschichttemperatur<br>maximum junction temperature |                                                                                                                                                                                                                                                                  | $T_{vj\ max}$ |      | 125        | $^\circ C$   |
| Betriebstemperatur<br>operating temperature                            |                                                                                                                                                                                                                                                                  | $T_{c\ op}$   |      | -40...+125 | $^\circ C$   |
| Lagertemperatur<br>storage temperature                                 |                                                                                                                                                                                                                                                                  | $T_{stg}$     |      | -40...+150 | $^\circ C$   |

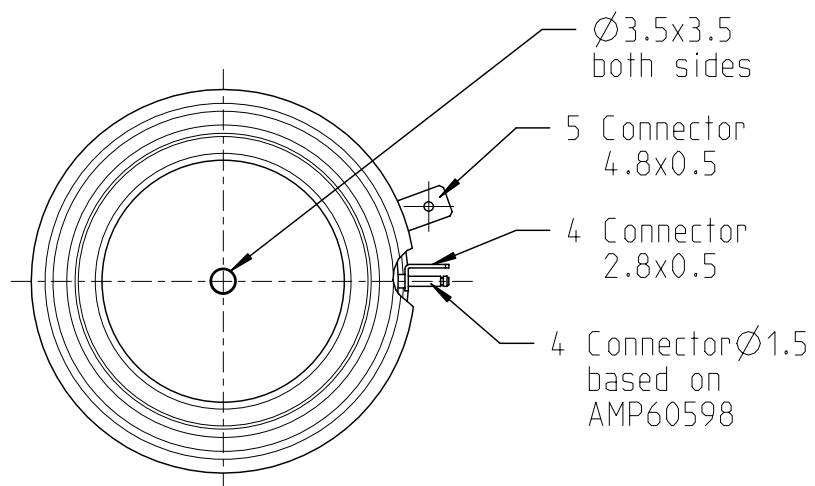
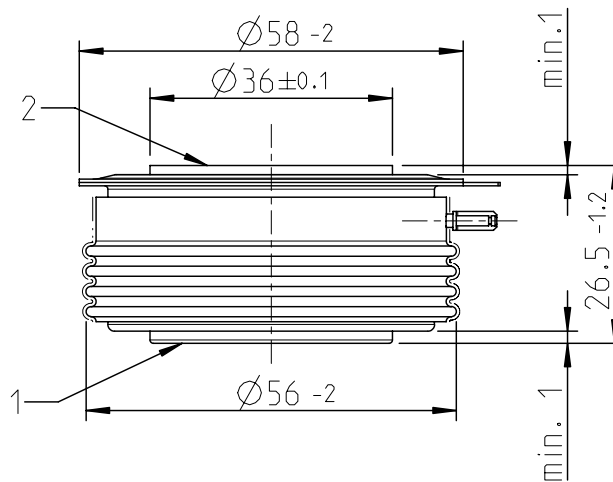
**Mechanische Eigenschaften / Mechanical properties**

|                                                                |                                                                      |   |      |                                             |                  |
|----------------------------------------------------------------|----------------------------------------------------------------------|---|------|---------------------------------------------|------------------|
| Gehäuse, siehe Anlage<br>case, see annex                       |                                                                      |   |      | Seite 3<br>page 3                           |                  |
| Si-Element mit Druckkontakt<br>Si-pellet with pressure contact |                                                                      |   |      |                                             |                  |
| Anpresskraft<br>clamping force                                 |                                                                      | F |      | 10,5...21                                   | kN               |
| Steueranschlüsse<br>control terminals                          | Gate (flat)<br>Gate (round, based on AMP 60598)<br>Kathode / cathode |   |      | A 2,8x0,5<br>$\varnothing 1,5$<br>A 4,8x0,5 | mm<br>mm<br>mm   |
| Gewicht<br>weight                                              |                                                                      | G | typ. | 280                                         | g                |
| Kriechstrecke<br>creepage distance                             |                                                                      |   |      | 20                                          | mm               |
| Schwingfestigkeit<br>vibration resistance                      | f = 50 Hz                                                            |   |      | 50                                          | m/s <sup>2</sup> |



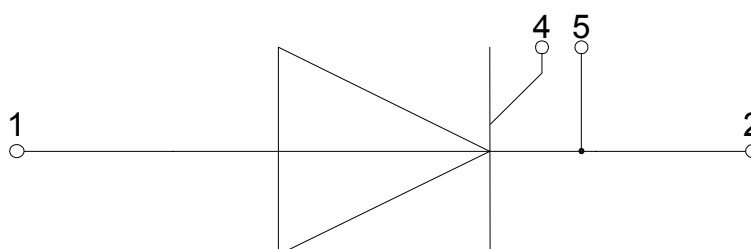
**Netz-Thyristor**  
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strike distance: 15mm  
creepage distance: 20mm

overall height based  
on contact pressure



**1: Anode / Anode**

**2: Kathode / Cathode**

**4: Gate**

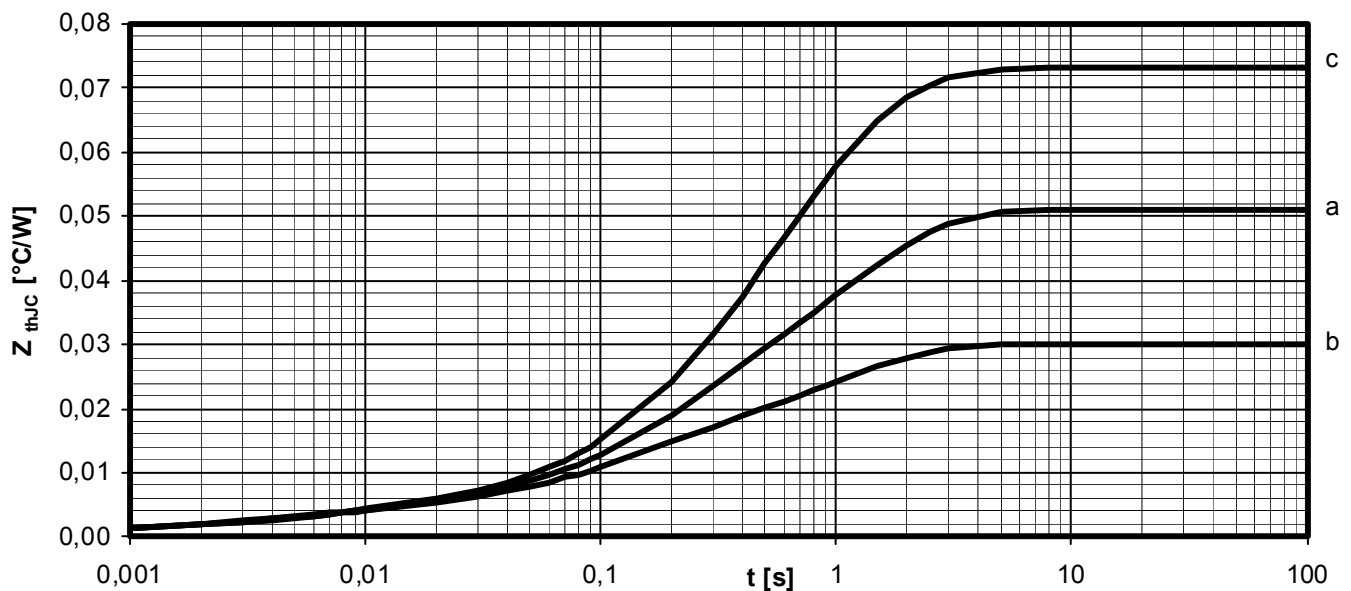
**5: Hilfskathode/  
Auxiliary Cathode**


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**Analytische Elemente des transienten Wärmewiderstandes  $Z_{thJC}$  für DC**  
**Analytical elements of transient thermal impedance  $Z_{thJC}$  for DC**

| Kühlung / Cooling               | Pos. n           | 1       | 2       | 3       | 4       | 5       | 6 | 7 |
|---------------------------------|------------------|---------|---------|---------|---------|---------|---|---|
| beidseitig<br>two-sided         | $R_{thn}$ [°C/W] | 0,00013 | 0,00164 | 0,00195 | 0,00968 | 0,0166  | - | - |
|                                 | $\tau_n$ [s]     | 0,00018 | 0,00166 | 0,00937 | 0,11900 | 0,9390  | - | - |
| anodenseitig<br>anode-sided     | $R_{thn}$ [°C/W] | 0,00013 | 0,00164 | 0,00195 | 0,0153  | 0,03208 | - | - |
|                                 | $\tau_n$ [s]     | 0,00018 | 0,00166 | 0,00937 | 0,1830  | 1,14000 | - | - |
| kathodenseitig<br>cathode-sided | $R_{thn}$ [°C/W] | 0,00013 | 0,00164 | 0,00195 | 0,02665 | 0,04283 | - | - |
|                                 | $\tau_n$ [s]     | 0,00018 | 0,00166 | 0,00937 | 0,33800 | 0,90000 | - | - |

Analytische Funktion / Analytical function:

$$Z_{thJC} = \sum_{n=1}^{n_{\max}} R_{thn} \left( 1 - e^{-\frac{t}{\tau_n}} \right)$$


**Transienter innerer Wärmewiderstand für DC / Transient thermal impedance for DC**  
 $Z_{thJC} = f(t)$ 

a - Anodenseitige Kühlung / Anode-sided cooling  
 b - Beidseitige Kühlung / Two-sided cooling  
 c - Kathodenseitige Kühlung / Cathode-sided cooling


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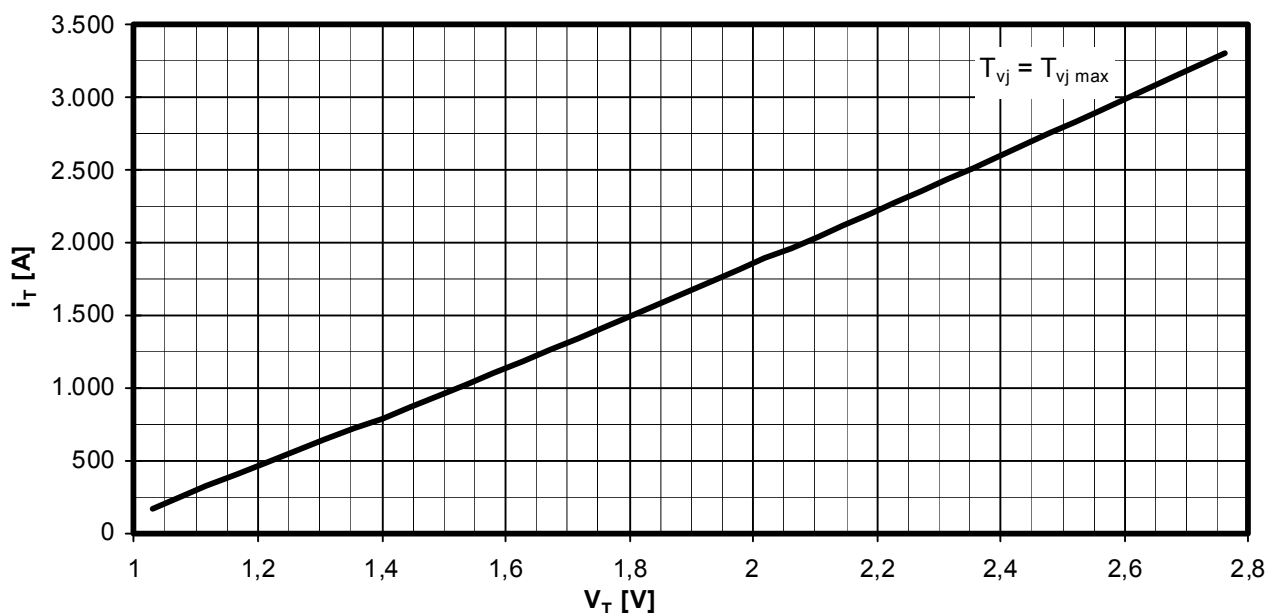
**Erhöhung des  $Z_{th DC}$  bei Sinus und Rechteckströmen mit unterschiedlichen Stromflusswinkeln  $\Theta$**   
**Rise of  $Z_{th DC}$  for sinewave and rectangular current with different current conduction angles  $\Theta$**

 $\Delta Z_{th \Theta rec} / \Delta Z_{th \Theta sin}$ 

| Kühlung / Cooling               |                                         | $\Theta = 180^\circ$ | $\Theta = 120^\circ$ | $\Theta = 90^\circ$ | $\Theta = 60^\circ$ | $\Theta = 30^\circ$ |
|---------------------------------|-----------------------------------------|----------------------|----------------------|---------------------|---------------------|---------------------|
| beidseitig<br>two-sided         | $\Delta Z_{th \Theta rec} [^\circ C/W]$ | 0,00321              | 0,00554              | 0,00745             | 0,01040             | 0,01558             |
|                                 | $\Delta Z_{th \Theta sin} [^\circ C/W]$ | 0,00175              | 0,00275              | 0,00421             | 0,00682             | 0,01205             |
| anodenseitig<br>anode-sided     | $\Delta Z_{th \Theta rec} [^\circ C/W]$ | 0,00327              | 0,00562              | 0,00754             | 0,01050             | 0,01570             |
|                                 | $\Delta Z_{th \Theta sin} [^\circ C/W]$ | 0,00182              | 0,00282              | 0,00430             | 0,00691             | 0,01216             |
| kathodenseitig<br>cathode-sided | $\Delta Z_{th \Theta rec} [^\circ C/W]$ | 0,00335              | 0,00571              | 0,00765             | 0,01062             | 0,01583             |
|                                 | $\Delta Z_{th \Theta sin} [^\circ C/W]$ | 0,00189              | 0,00291              | 0,00440             | 0,00702             | 0,01229             |

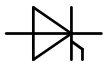
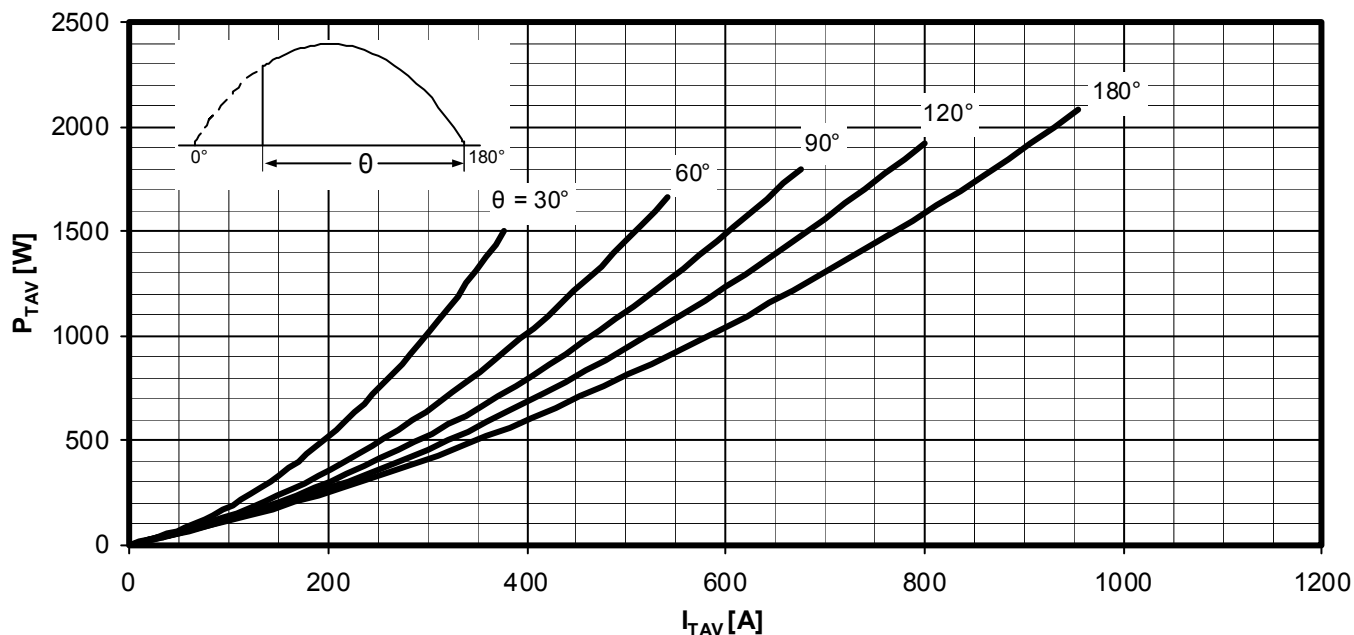
$$Z_{th \Theta rec} = Z_{th DC} + \Delta Z_{th \Theta rec}$$

$$Z_{th \Theta sin} = Z_{th DC} + \Delta Z_{th \Theta sin}$$



**Grenzdurchlasskennlinie / Limiting on-state characteristic  $i_T = f(V_T)$**

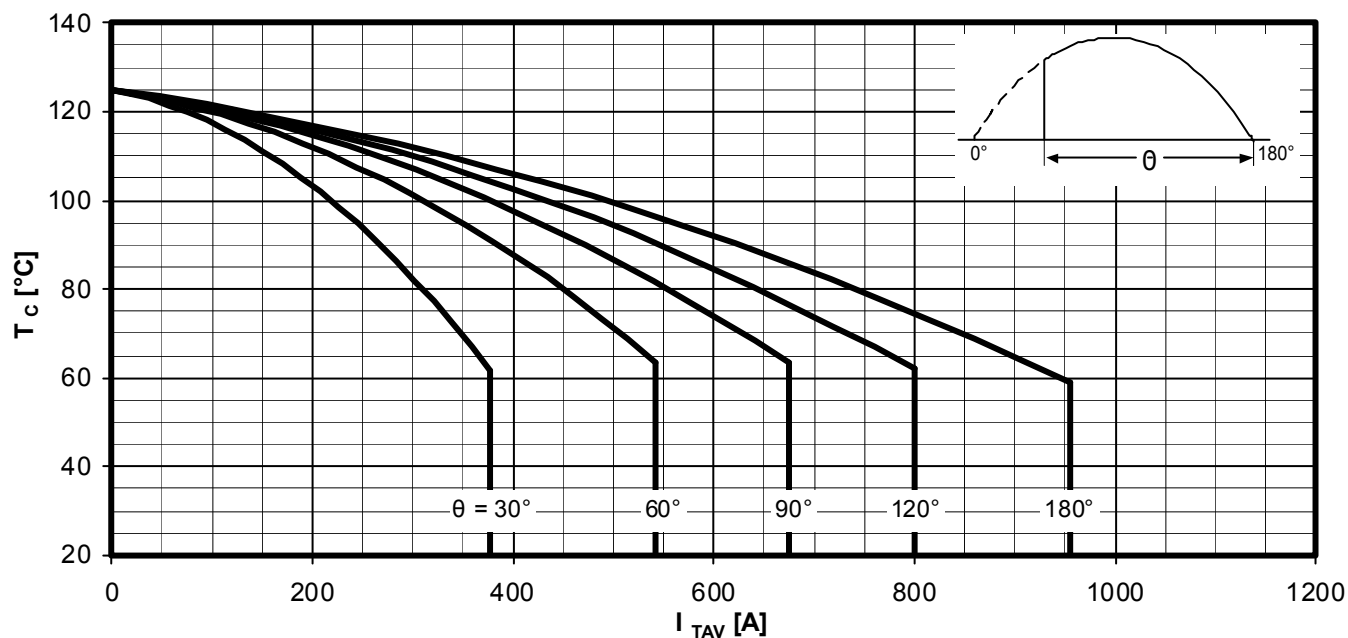
$T_{vj} = T_{vj max}$


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Durchlassverlustleistung / On-state power loss  $P_{TAV} = f(I_{TAV})$

Sinusförmiger Strom / Sinusoidal current

Parameter: Stromflusswinkel  $\theta$  / Current conduction angle  $\theta$

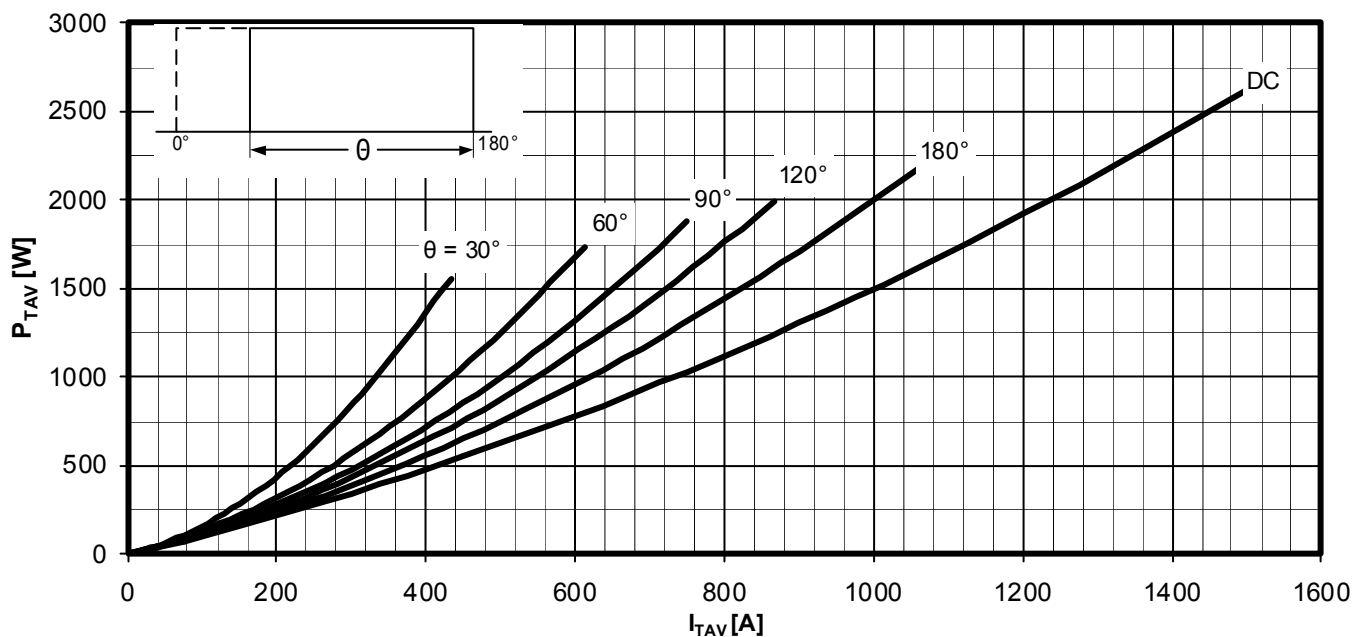


Höchstzulässige Gehäusetemperatur / Maximum allowable case temperature  $T_c = f(I_{TAV})$

Sinusförmiger Strom / Sinusoidal current

Beidseitige Kühlung / Two-sided cooling

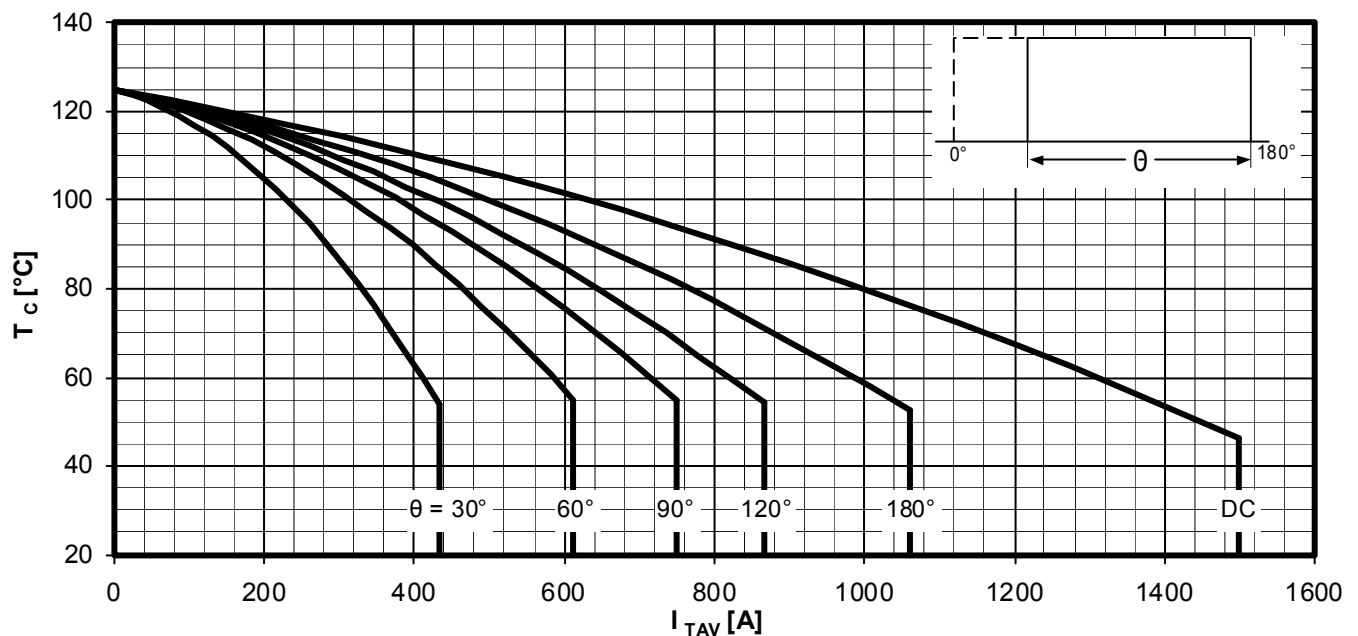
Parameter: Stromflusswinkel  $\theta$  / Current conduction angle  $\theta$


**Netz-Thyristor**  
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Durchlassverlustleistung / On-state power loss  $P_{TAV} = f(I_{TAV})$

Rechteckförmiger Strom / Rectangular current

Parameter: Stromflusswinkel  $\Theta$  / Current conduction angle  $\Theta$

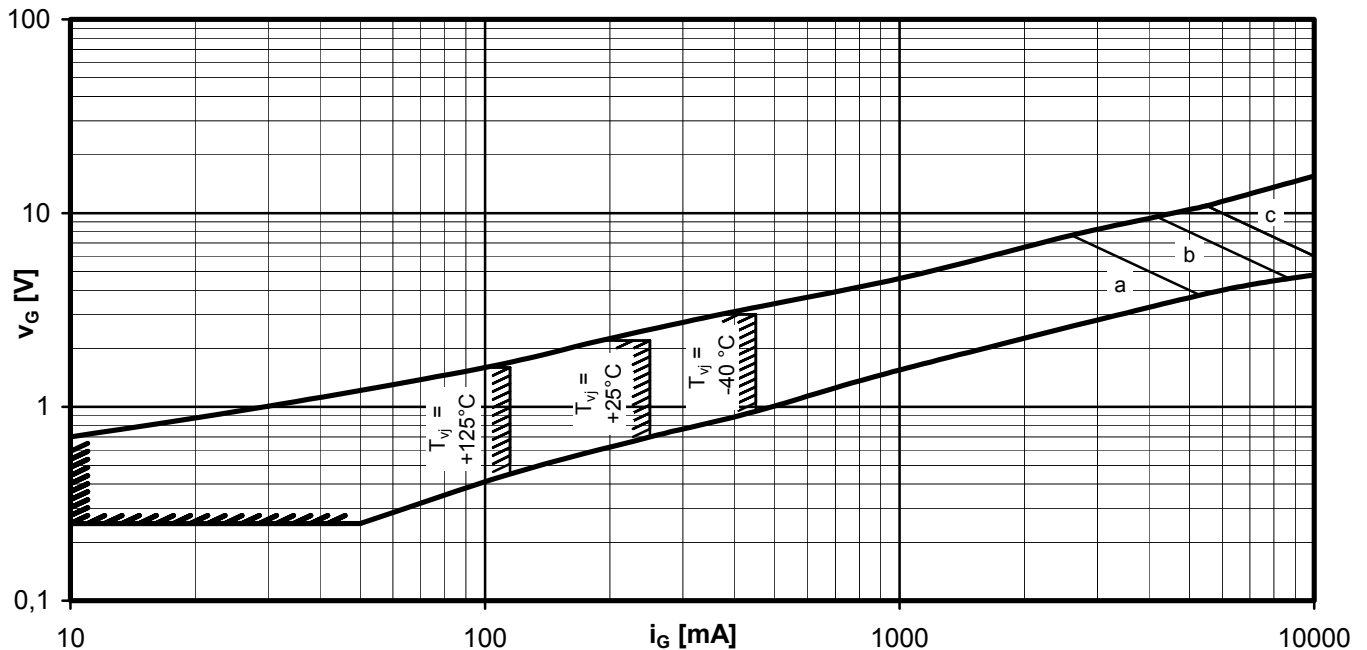


Höchstzulässige Gehäusetemperatur / Maximum allowable case temperature  $T_c = f(I_{TAV})$

Rechteckförmiger Strom / Rectangular current

Beidseitige Kühlung / Two-sided cooling

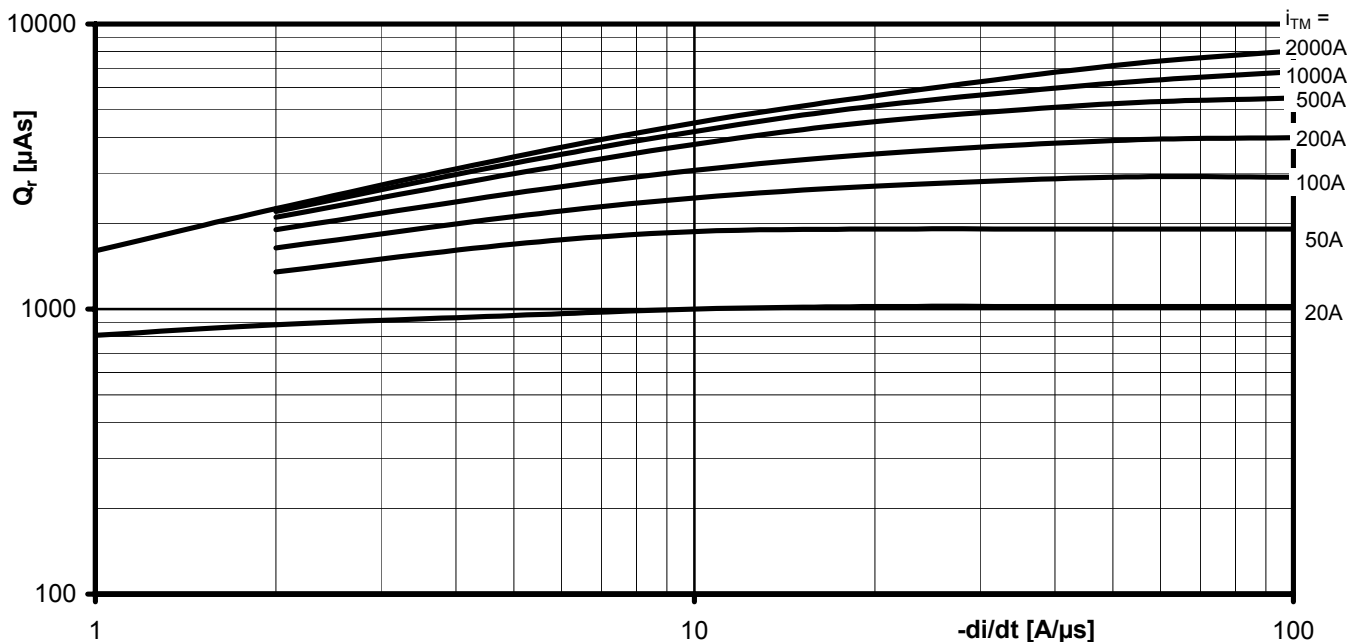
Parameter: Stromflusswinkel  $\Theta$  / Current conduction angle  $\Theta$


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**Steuercharakteristik  $v_G = f(i_G)$  mit Zündbereichen für  $V_D = 12\text{ V}$**   
**Gate characteristic  $v_G = f(i_G)$  with triggering area for  $V_D = 12\text{ V}$**

Höchstzulässige Spitzensteuerverlustleistung / Maximum rated peak gate power dissipation  $P_{GM} = f(t_g)$  :

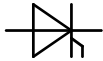
a - 20W / 10ms    b - 40W / 1ms    c - 60W / 0,5ms



**Sperrverzögerungsladung / Recovered charge  $Q_r = f(di/dt)$**

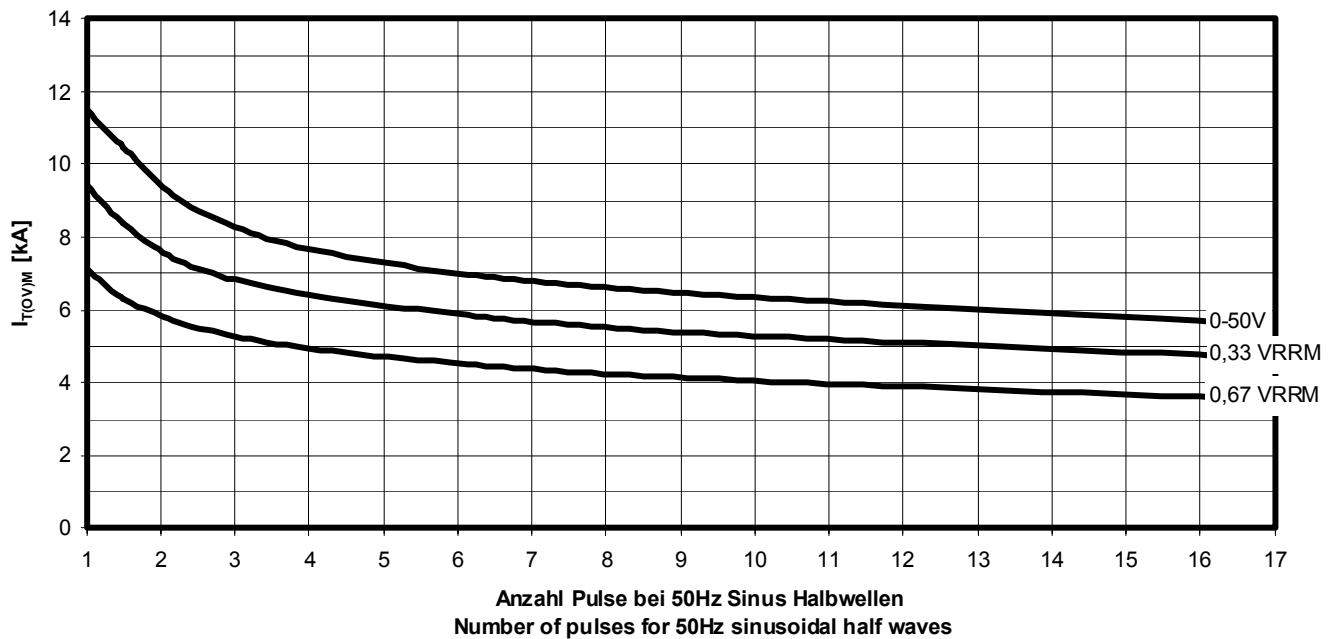
$T_{vj} = T_{vjmax}$ ,  $V_R \leq 0,5 V_{RRM}$ ,  $V_{RM} = 0,8 V_{RRM}$

Parameter: Durchlassstrom / On-state current  $i_{TM}$



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Typische Abhängigkeit des Grenzstromes  $I_{T(OV)M}$  von der Anzahl für eine Folge von Sinus Halbwellen bei 50Hz. Parameter: Rückwärtsspannung  $V_{RM}$   
 Typical dependency of maximum overload on-state current  $I_{T(OV)M}$  as a number of a sequence of sinusoidal half waves at 50Hz. Parameter: peak reverse voltage  $V_{RM}$   
 $I_{T(OV)M} = f(\text{pulses}, V_{RM})$ ;  $T_{vj} = T_{vjmax}$

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                   |                         |                                                                                     |
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| Netz-Thyristor<br>Phase Control Thyristor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                   | T660N                   |                                                                                     |
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