



flowBOOST 1 symmetric dual

900 V / 65 mΩ

Features

- Symmetric Boost for 1500Vdc applications
- Full SiC for ultra high speed frequencies

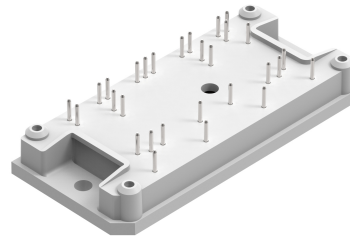
Target applications

- Solar Inverters

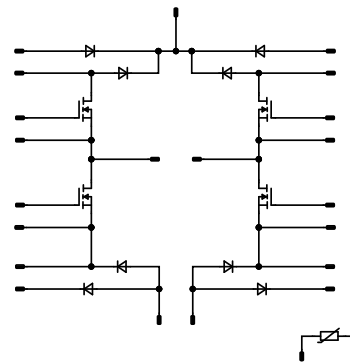
Types

- 10-FY09S2A065ME-L869L08

flow 1 12 mm housing



Schematic





Vincotech

10-FY09S2A065ME-L869L08
datasheet

Maximum Ratings

$T_j = 25\text{ °C}$, unless otherwise specified

| Parameter | Symbol | Conditions | Value | Unit | |
|--------------------------------|------------|--|----------------------|------|---|
| Boost Switch | | | | | |
| Drain-source voltage | V_{DSS} | | 900 | V | |
| Drain current | I_D | $T_j = T_{jmax}$ | $T_s = 80\text{ °C}$ | 24 | A |
| | | | $T_s = 72\text{ °C}$ | 26 | A |
| Peak drain current | I_{DM} | t_p limited by T_{jmax} | 90 | A | |
| Avalanche energy, single pulse | E_{AS} | $V_{DD} = 50\text{ V}$ $I_D = 22\text{ A}$ | 110 | mJ | |
| Total power dissipation | P_{tot} | $T_j = T_{jmax}$ $T_s = 80\text{ °C}$ | 54 | W | |
| Gate-source voltage | V_{GSS} | | -4 / 15 | V | |
| | | dynamic | -8 / 19 | | |
| Maximum Junction Temperature | T_{jmax} | | 175 | °C | |

Boost Diode

| | | | | |
|--|------------|---|------|----|
| Peak repetitive reverse voltage | V_{RRM} | | 1200 | V |
| Continuous (direct) forward current | I_F | $T_j = T_{jmax}$ $T_s = 80\text{ °C}$ | 28 | A |
| Repetitive peak forward current | I_{FRM} | t_p limited by T_{jmax} | 92 | A |
| Surge (non-repetitive) forward current | I_{FSM} | Single Half Sine Wave, $t_p = 8,3\text{ ms}$ $T_j = 150\text{ °C}$ | 66 | A |
| Total power dissipation | P_{tot} | $T_j = T_{jmax}$ $T_s = 80\text{ °C}$ | 87 | W |
| Maximum junction temperature | T_{jmax} | | 175 | °C |

ByPass Diode

| | | | | |
|--|------------|--|------|------------------|
| Peak repetitive reverse voltage | V_{RRM} | | 1600 | V |
| Forward average current | I_{FAV} | $T_j = T_{jmax}$ $T_s = 80\text{ °C}$ | 33 | A |
| Surge (non-repetitive) forward current | I_{FSM} | Single Half Sine Wave, $t_p = 10\text{ ms}$ $T_j = 150\text{ °C}$ | 200 | A |
| Surge current capability | I^2t | | 200 | A ² s |
| Total power dissipation | P_{tot} | $T_j = T_{jmax}$ $T_s = 80\text{ °C}$ | 43 | W |
| Maximum junction temperature | T_{jmax} | | 150 | °C |



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Maximum Ratings

$T_j = 25\text{ °C}$, unless otherwise specified

| Parameter | Symbol | Conditions | Value | Unit |
|-----------|--------|------------|-------|------|
|-----------|--------|------------|-------|------|

Module Properties

Thermal Properties

| | | | | |
|---|------------------|--|-----------------------------------|----|
| Storage temperature | T_{stg} | | -40...+125 | °C |
| Operation temperature under switching condition | T_{jop} | | -40...+($T_{\text{jmax}} - 25$) | °C |

Isolation Properties

| | | | | |
|----------------------------|-------------------|-------------------------------------|------------|----|
| Isolation voltage | V_{isol} | DC Test Voltage* $t_p = 2\text{ s}$ | 6000 | V |
| Isolation voltage | V_{isol} | AC Voltage $t_p = 1\text{ min}$ | 2500 | V |
| Creepage distance | | | min. 12,7 | mm |
| Clearance | | | 9,6 | mm |
| Comparative Tracking Index | CTI | | ≥ 200 | |

*100 % tested in production



Vincotech

Characteristic Values

| Parameter | Symbol | Conditions | | | | | Values | | | Unit |
|-----------|--------|------------------------------|---|-------------------------------------|------------|-----|--------|-----|--|------|
| | | V_{GE} [V] V_{GS} [V] | V_{CE} [V] V_{DS} [V] V_F [V] | I_C [A] I_D [A] I_F [A] | T_j [°C] | Min | Typ | Max | | |

Boost Switch

Static

| | | | | | | | | | | |
|----------------------------------|--------------|-------------|-------|-----|-------|------------------|-----|----------------|-------------------|----|
| Drain-source on-state resistance | $r_{DS(on)}$ | | 15 | | 20 | 25 125 150 | | 63 79 87 | 78 ⁽¹⁾ | mΩ |
| Gate-source threshold voltage | $V_{GS(th)}$ | | 0 | | 0,005 | 25 | 1,7 | 2,4 | 3,5 | V |
| Gate to Source Leakage Current | I_{GSS} | | 15 | 0 | | 25 | | 10 | 250 | nA |
| Zero Gate Voltage Drain Current | I_{DSS} | | 0 | 900 | | 25 | | 1 | 100 | μA |
| Internal gate resistance | r_g | | | | | | | 4,7 | | Ω |
| Gate charge | Q_g | | | | | | | 30,4 | | nC |
| Gate to source charge | Q_{GS} | | -4/15 | 400 | 20 | 25 | | 7,5 | | |
| Gate to drain charge | Q_{GD} | | | | | | | 12 | | |
| Short-circuit input capacitance | C_{iss} | | | | | | | 660 | | pF |
| Short-circuit output capacitance | C_{oss} | $f = 1$ Mhz | 0 | 600 | 0 | 25 | | 60 | | |
| Reverse transfer capacitance | C_{rss} | | | | | | | 4 | | |
| Diode forward voltage | V_{SD} | | 0 | | 0 | 25 | | 4,8 | | V |

Thermal

| | | | | | | | | | | |
|--|---------------|---------------------------------------|--|--|--|--|--|------|--|-----|
| Thermal resistance junction to sink ⁽²⁾ | $R_{th(j-s)}$ | $\lambda_{paste} = 3,4$ W/mK (PSX) | | | | | | 1,75 | | K/W |
|--|---------------|---------------------------------------|--|--|--|--|--|------|--|-----|

Dynamic

| | | | | | | | | | | |
|-----------------------------|--------------|--|--|--|--|------------------|--|-------------------------|--|-----|
| Turn-on delay time | $t_{d(on)}$ | | | | | 25 125 150 | | 6,4 6,2 6 | | ns |
| Rise time | t_r | | | | | 25 125 150 | | 3,2 3 3,2 | | ns |
| Turn-off delay time | $t_{d(off)}$ | | | | | 25 125 150 | | 23,2 24,4 24,6 | | ns |
| Fall time | t_f | | | | | 25 125 150 | | 12,35 6,99 7,36 | | ns |
| Turn-on energy (per pulse) | E_{on} | $Q_{rFWD}=0,157$ μC $Q_{rFWD}=0,17$ μC $Q_{rFWD}=0,158$ μC | | | | 25 125 150 | | 0,122 0,117 0,115 | | mWs |
| Turn-off energy (per pulse) | E_{off} | | | | | 25 125 150 | | 0,036 0,033 0,034 | | mWs |



Vincotech

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datasheet

Characteristic Values

| Parameter | Symbol | Conditions | | | | | Values | | | Unit |
|--|-------------------|---|---|-------------------------------------|------------|------------------|--------|-------------------------|--------------------|------|
| | | V_{GE} [V] V_{GS} [V] | V_{CE} [V] V_{DS} [V] V_F [V] | I_C [A] I_D [A] I_F [A] | T_j [°C] | Min | Typ | Max | | |
| Boost Diode | | | | | | | | | | |
| Static | | | | | | | | | | |
| Forward voltage | V_F | | | | 20 | 25 125 150 | | 1,43 1,74 1,84 | 1,6 ⁽¹⁾ | V |
| Reverse leakage current | I_R | $V_r = 1200$ V | | | | 25 150 | | 20 160 | 400 | μA |
| Thermal | | | | | | | | | | |
| Thermal resistance junction to sink ⁽²⁾ | $R_{th(j-s)}$ | $\lambda_{paste} = 3,4$ W/mK (PSX) | | | | | | 1,09 | | K/W |
| Dynamic | | | | | | | | | | |
| Peak recovery current | I_{RRM} | | | | | 25 125 150 | | 33,83 36,8 35,98 | | A |
| Reverse recovery time | t_{rr} | | | | | 25 125 150 | | 8,65 8,62 8,67 | | ns |
| Recovered charge | Q_r | $di/dt=7740$ A/μs $di/dt=8533$ A/μs $di/dt=8481$ A/μs | 0/15 | 600 | 20 | 25 125 150 | | 0,157 0,17 0,158 | | μC |
| Reverse recovered energy | E_{rec} | | | | | 25 125 150 | | 0,018 0,021 0,014 | | mWs |
| Peak rate of fall of recovery current | $(di_r/dt)_{max}$ | | | | | 25 125 150 | | 11350 11573 11522 | | A/μs |



Characteristic Values

| Parameter | Symbol | Conditions | | | | | Values | | | Unit |
|-----------|--------|------------------------------|---|-------------------------------------|------------|-----|--------|-----|--|------|
| | | V_{GE} [V] V_{GS} [V] | V_{CE} [V] V_{DS} [V] V_F [V] | I_C [A] I_D [A] I_F [A] | T_j [°C] | Min | Typ | Max | | |

ByPass Diode

Static

| | | | | | | | | | | |
|-------------------------|-------|----------------|--|--|----|-----------|--|-------------|----|---------|
| Forward voltage | V_F | | | | 25 | 25 125 | | 1,22 1,2 | | V |
| Reverse leakage current | I_R | $V_i = 1600$ V | | | | 25 | | | 50 | μ A |

Thermal

| | | | | | | | | | | |
|--|---------------|---------------------------------------|--|--|--|--|--|------|--|-----|
| Thermal resistance junction to sink ⁽²⁾ | $R_{th(j-s)}$ | $\lambda_{paste} = 3,4$ W/mK (PSX) | | | | | | 1,61 | | K/W |
|--|---------------|---------------------------------------|--|--|--|--|--|------|--|-----|

Thermistor

Static

| | | | | | | | | | | |
|--------------------------------|----------------|---------------------------|--|--|--|-----|----|------|---|------------|
| Rated resistance | R | | | | | 25 | | 22 | | k Ω |
| Deviation of R_{100} | $\Delta_{R/R}$ | $R_{100} = 1484$ Ω | | | | 100 | -5 | | 5 | % |
| Power dissipation | P | | | | | | | 5 | | mW |
| Power dissipation constant | d | | | | | 25 | | 1,5 | | mW/K |
| B-value | $B_{(25/50)}$ | Tol. ± 1 % | | | | | | 3962 | | K |
| B-value | $B_{(25/100)}$ | Tol. ± 1 % | | | | | | 4000 | | K |
| Vincotech Thermistor Reference | | | | | | | | | I | |

⁽¹⁾ Value at chip level

⁽²⁾ Only valid with pre-applied Vincotech thermal interface material.



Boost Switch Characteristics

figure 1. MOSFET

Typical output characteristics
 $I_D = f(V_{DS})$

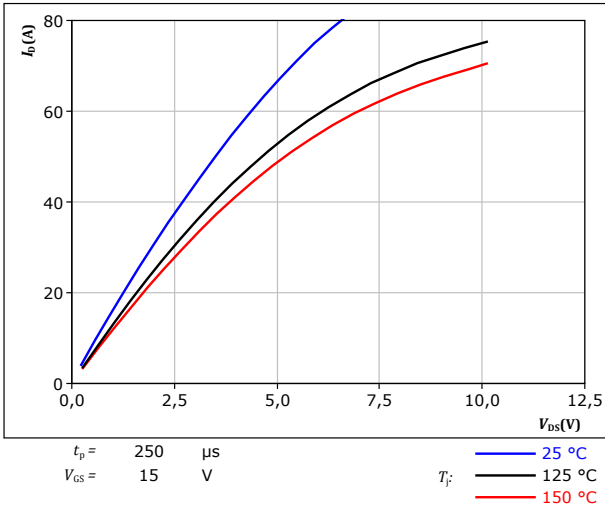


figure 2. MOSFET

Typical output characteristics
 $I_D = f(V_{DS})$

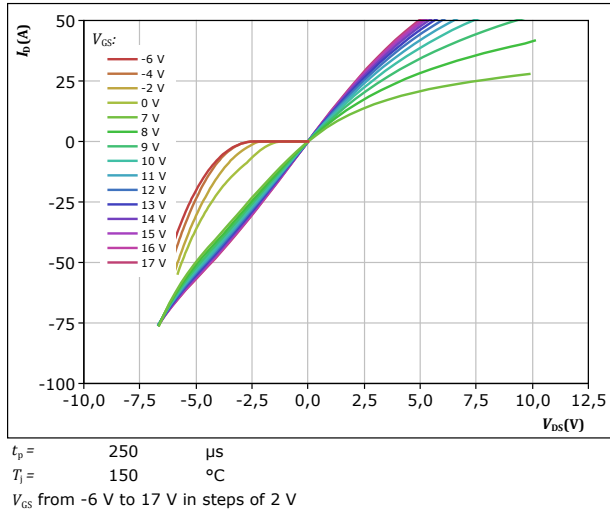


figure 3. MOSFET

Typical transfer characteristics
 $I_D = f(V_{GS})$

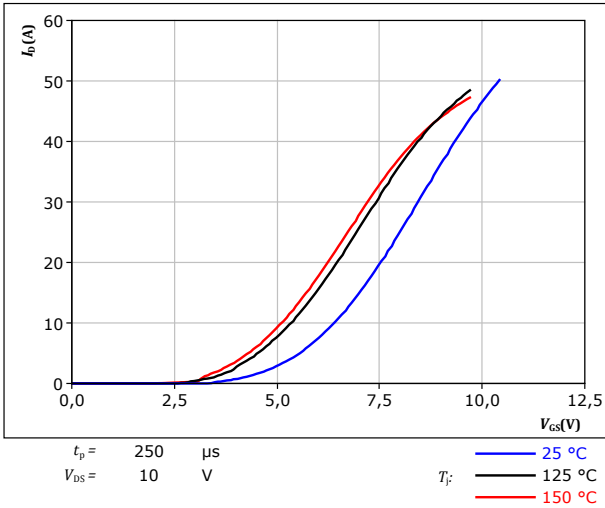
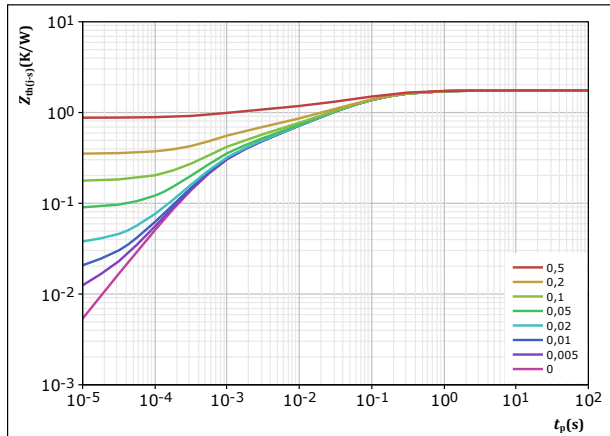


figure 4. MOSFET

Transient thermal impedance as a function of pulse width
 $Z_{th(j-s)} = f(t_p)$



MOSFET thermal model values

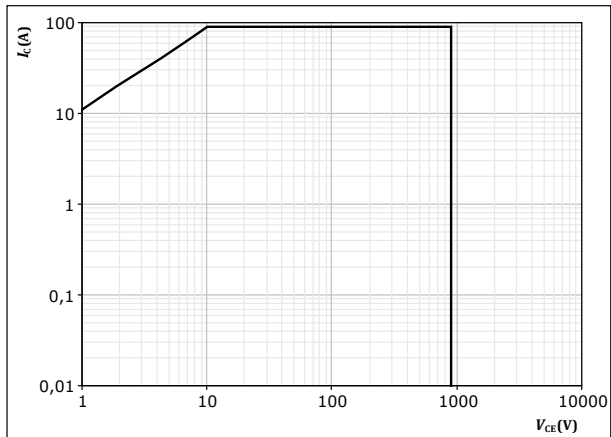
| R (K/W) | τ (s) |
|----------|------------|
| 1,68E-02 | 2,51E+00 |
| 2,14E-01 | 4,20E-01 |
| 6,08E-01 | 8,60E-02 |
| 4,08E-01 | 2,04E-02 |
| 2,18E-01 | 3,79E-03 |
| 2,87E-01 | 6,31E-04 |



Boost Switch Characteristics

figure 5. MOSFET

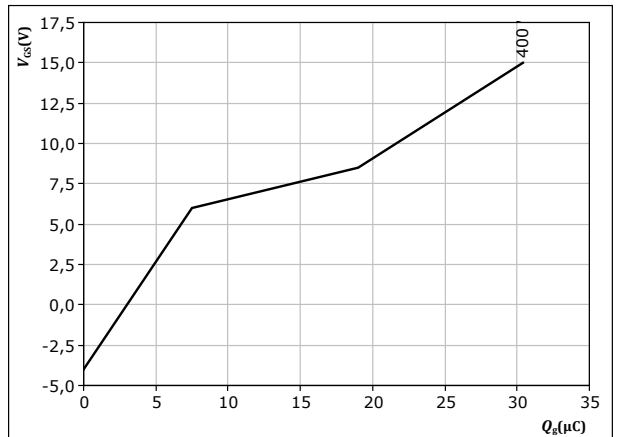
Safe operating area
 $I_C = f(V_{CE})$



$D =$ single pulse
 $T_s = 80$ °C
 $V_{GE} = 15$ V
 $T_j = T_{jmax}$

figure 6. MOSFET

Gate voltage vs gate charge
 $V_{GS} = f(Q_g)$



At $I_D = 38$ A



Boost Diode Characteristics

figure 7. FWD

Typical forward characteristics

$$I_F = f(V_F)$$

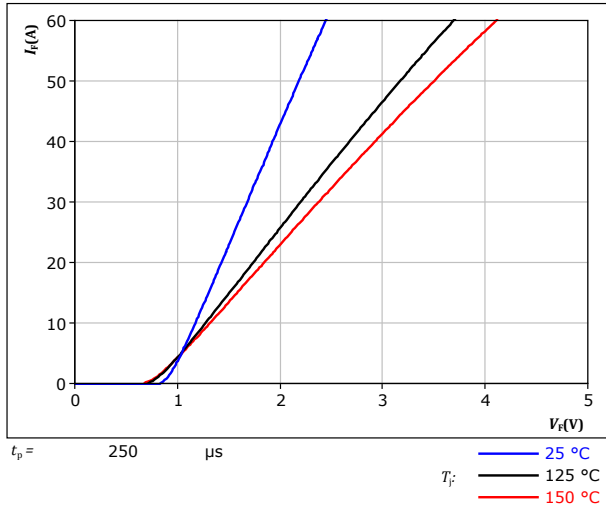
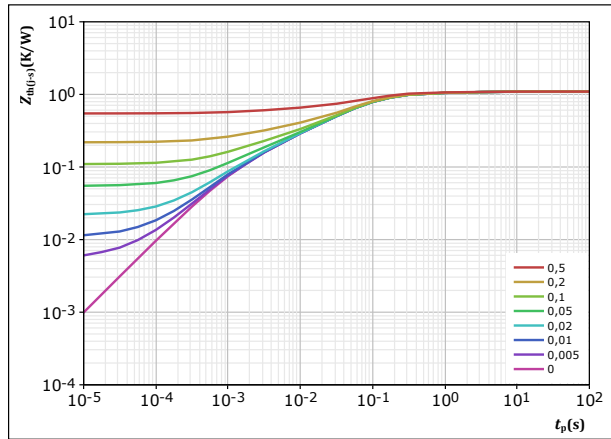


figure 8. FWD

Transient thermal impedance as a function of pulse width

$$Z_{th(j-s)} = f(t_p)$$



$D = t_p / T$
 $R_{th(j-s)} = 1,093 \text{ K/W}$
 FWD thermal model values

| R (K/W) | τ (s) |
|----------|------------|
| 4,73E-02 | 2,96E+00 |
| 1,05E-01 | 4,20E-01 |
| 5,77E-01 | 8,31E-02 |
| 1,79E-01 | 2,65E-02 |
| 1,16E-01 | 5,49E-03 |
| 6,86E-02 | 1,07E-03 |



ByPass Diode Characteristics

figure 9. Rectifier

Typical forward characteristics

$$I_F = f(V_F)$$

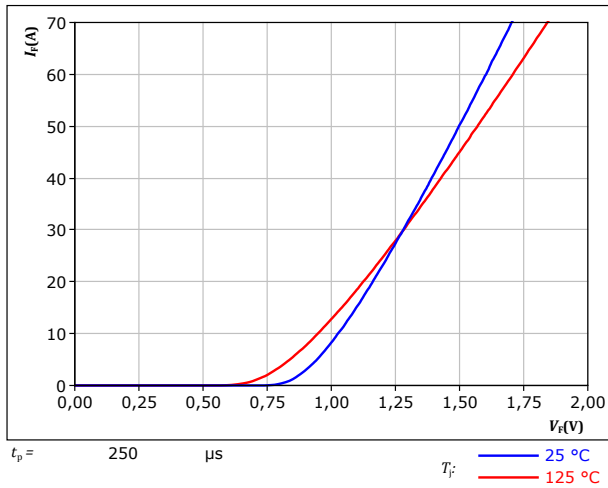
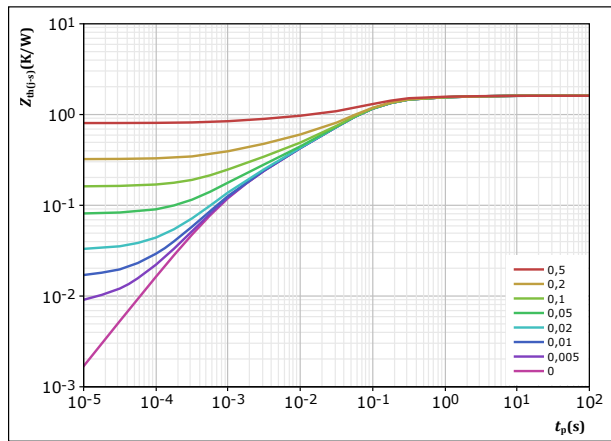


figure 10. Rectifier

Transient thermal impedance as a function of pulse width

$$Z_{th(j-s)} = f(t_p)$$



$D = t_p / T$

$R_{th(j-s)} = 1,611 \text{ K/W}$

Rectifier thermal model values

| $R \text{ (K/W)}$ | $\tau \text{ (s)}$ |
|-------------------|--------------------|
| 6,72E-02 | 2,72E+00 |
| 1,48E-01 | 4,14E-01 |
| 8,68E-01 | 8,33E-02 |
| 2,53E-01 | 2,89E-02 |
| 1,69E-01 | 5,15E-03 |
| 1,06E-01 | 9,10E-04 |

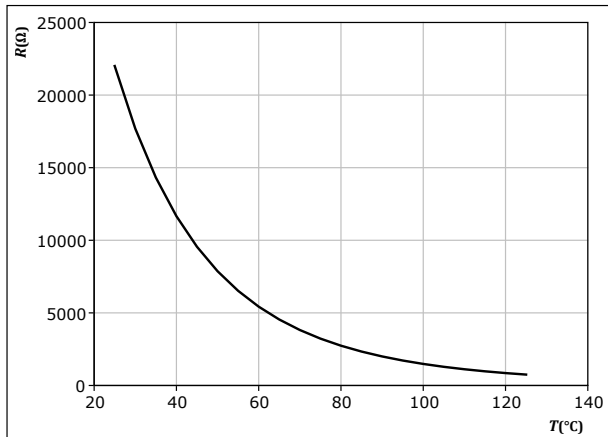


Thermistor Characteristics

figure 11. Thermistor

Typical NTC characteristic as function of temperature

$$R_T = f(T)$$

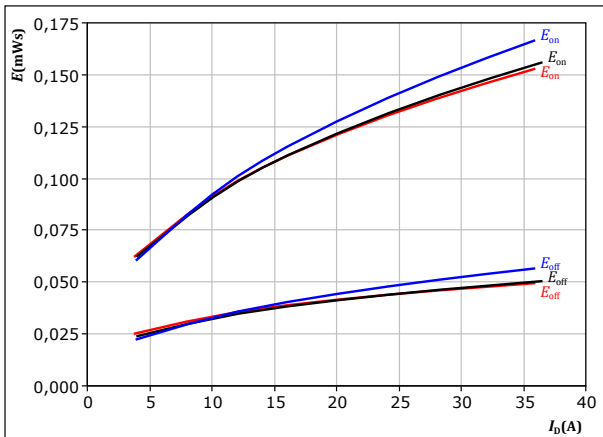




Boost Switching Characteristics

figure 12. MOSFET

Typical switching energy losses as a function of drain current
 $E = f(I_D)$

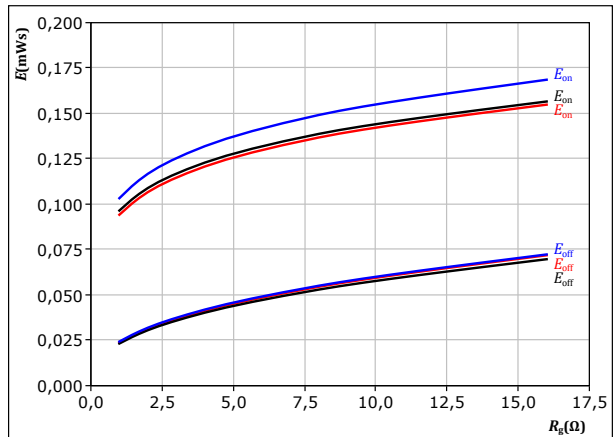


With an inductive load at

| | | | | |
|--------------|------|----------|--------|--------|
| $V_{DS} =$ | 600 | V | $T_j:$ | 25 °C |
| $V_{GS} =$ | 0/15 | V | | 125 °C |
| $R_{gon} =$ | 4 | Ω | | 150 °C |
| $R_{goff} =$ | 4 | Ω | | |

figure 13. MOSFET

Typical switching energy losses as a function of gate resistor
 $E = f(R_g)$

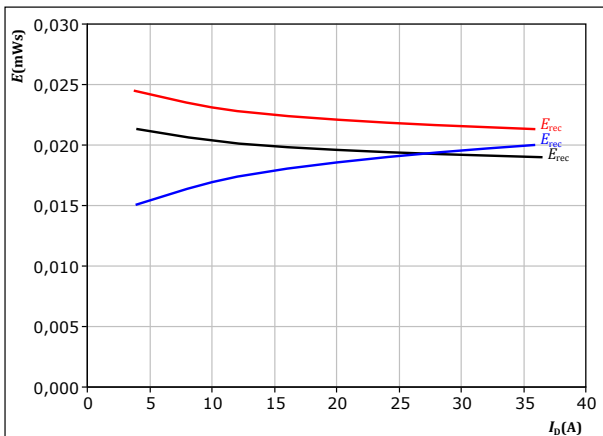


With an inductive load at

| | | | | |
|------------|------|---|--------|--------|
| $V_{DS} =$ | 600 | V | $T_j:$ | 25 °C |
| $V_{GS} =$ | 0/15 | V | | 125 °C |
| $I_D =$ | 20 | A | | 150 °C |

figure 14. FWD

Typical reverse recovered energy loss as a function of drain current
 $E_{rec} = f(I_D)$

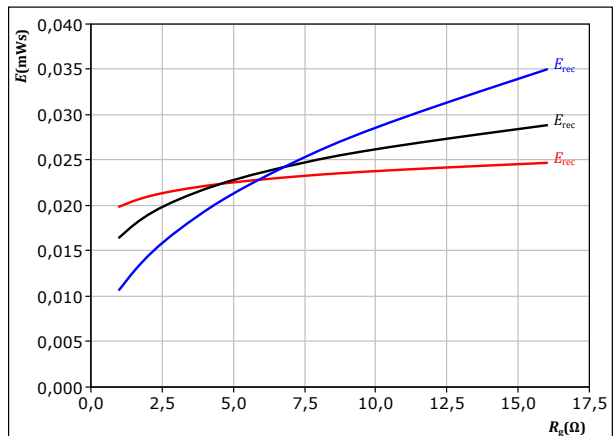


With an inductive load at

| | | | | |
|-------------|------|----------|--------|--------|
| $V_{DS} =$ | 600 | V | $T_j:$ | 25 °C |
| $V_{GS} =$ | 0/15 | V | | 125 °C |
| $R_{gon} =$ | 4 | Ω | | 150 °C |

figure 15. FWD

Typical reverse recovered energy loss as a function of gate resistor
 $E_{rec} = f(R_g)$



With an inductive load at

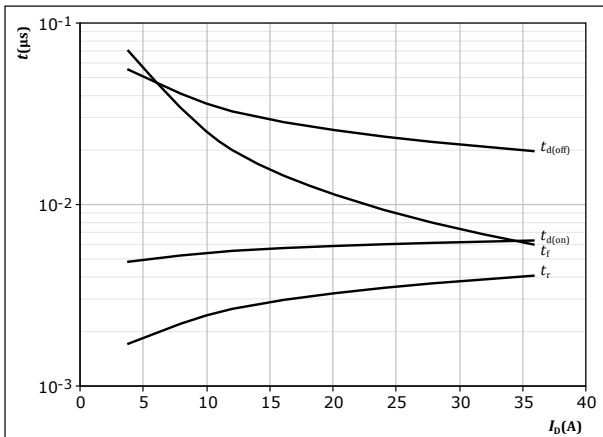
| | | | | |
|------------|------|---|--------|--------|
| $V_{DS} =$ | 600 | V | $T_j:$ | 25 °C |
| $V_{GS} =$ | 0/15 | V | | 125 °C |
| $I_D =$ | 20 | A | | 150 °C |



Boost Switching Characteristics

figure 16. MOSFET

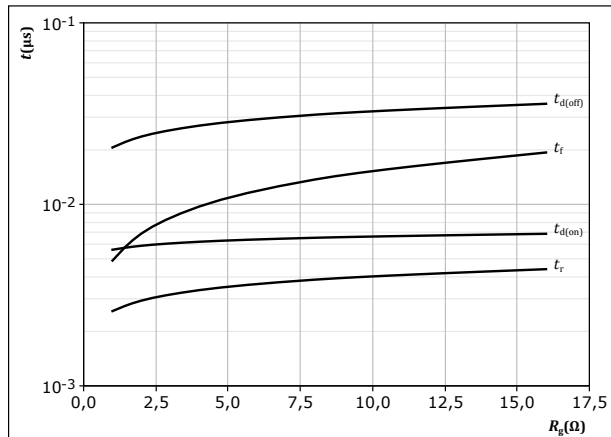
Typical switching times as a function of drain current
 $t = f(I_D)$



With an inductive load at
 $T_j = 150 \text{ } ^\circ\text{C}$
 $V_{DS} = 600 \text{ V}$
 $V_{GS} = 0/15 \text{ V}$
 $R_{gon} = 4 \text{ } \Omega$
 $R_{goff} = 4 \text{ } \Omega$

figure 17. MOSFET

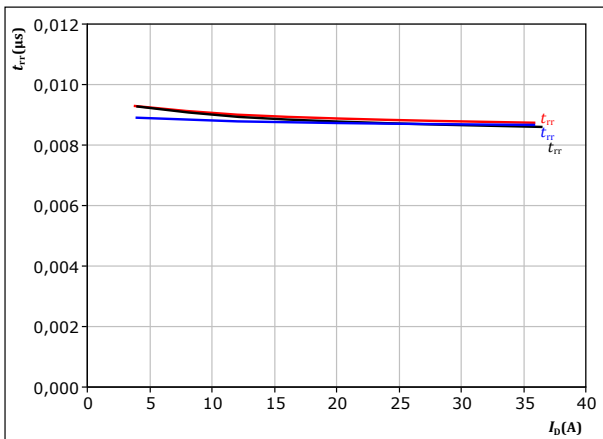
Typical switching times as a function of gate resistor
 $t = f(R_g)$



With an inductive load at
 $T_j = 150 \text{ } ^\circ\text{C}$
 $V_{DS} = 600 \text{ V}$
 $V_{GS} = 0/15 \text{ V}$
 $I_D = 20 \text{ A}$

figure 18. FWD

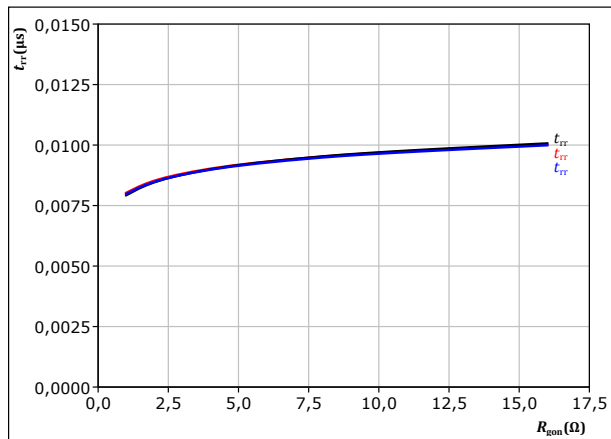
Typical reverse recovery time as a function of drain current
 $t_{rr} = f(I_D)$



At $V_{DS} = 600 \text{ V}$
 $V_{GS} = 0/15 \text{ V}$
 $R_{gon} = 4 \text{ } \Omega$
 T_j : — 25 °C
— 125 °C
— 150 °C

figure 19. FWD

Typical reverse recovery time as a function of turn on gate resistor
 $t_{rr} = f(R_{gon})$



At $V_{DS} = 600 \text{ V}$
 $V_{GS} = 0/15 \text{ V}$
 $I_D = 20 \text{ A}$
 T_j : — 25 °C
— 125 °C
— 150 °C

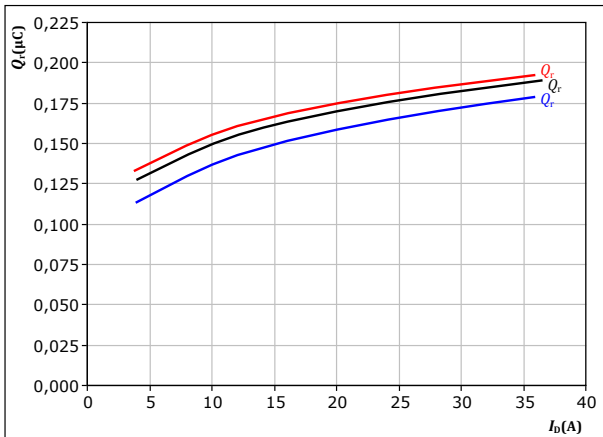


Boost Switching Characteristics

figure 20. FWD

Typical recovered charge as a function of drain current

$$Q_r = f(I_D)$$



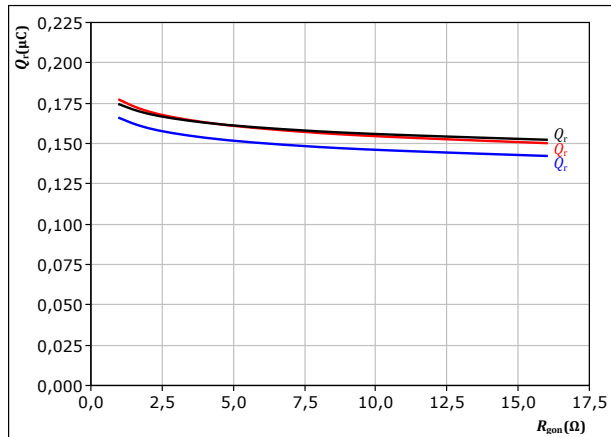
At $V_{DS} = 600$ V
 $V_{GS} = 0/15$ V
 $R_{gon} = 4$ Ω

T_j : 25 °C (blue), 125 °C (black), 150 °C (red)

figure 21. FWD

Typical recovered charge as a function of turn on gate resistor

$$Q_r = f(R_{gon})$$



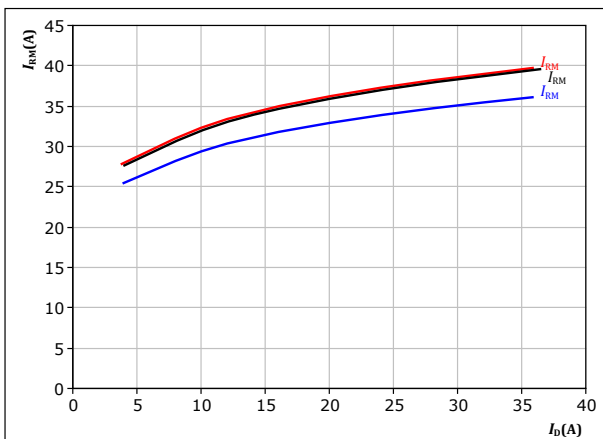
At $V_{DS} = 600$ V
 $V_{GS} = 0/15$ V
 $I_D = 20$ A

T_j : 25 °C (blue), 125 °C (black), 150 °C (red)

figure 22. FWD

Typical peak reverse recovery current as a function of drain current

$$I_{RM} = f(I_D)$$



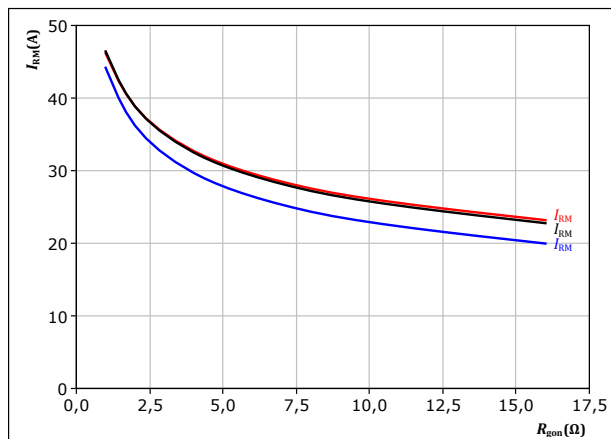
At $V_{DS} = 600$ V
 $V_{GS} = 0/15$ V
 $R_{gon} = 4$ Ω

T_j : 25 °C (blue), 125 °C (black), 150 °C (red)

figure 23. FWD

Typical peak reverse recovery current as a function of turn on gate resistor

$$I_{RM} = f(R_{gon})$$



At $V_{DS} = 600$ V
 $V_{GS} = 0/15$ V
 $I_D = 20$ A

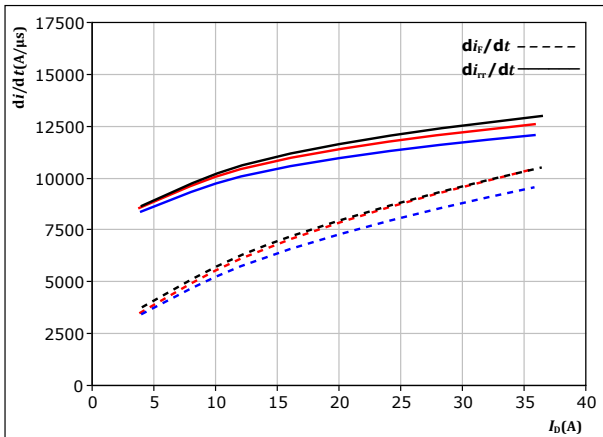
T_j : 25 °C (blue), 125 °C (black), 150 °C (red)



Boost Switching Characteristics

figure 24. FWD

Typical rate of fall of forward and reverse recovery current as a function of drain current
 $di_f/dt, di_r/dt = f(I_D)$

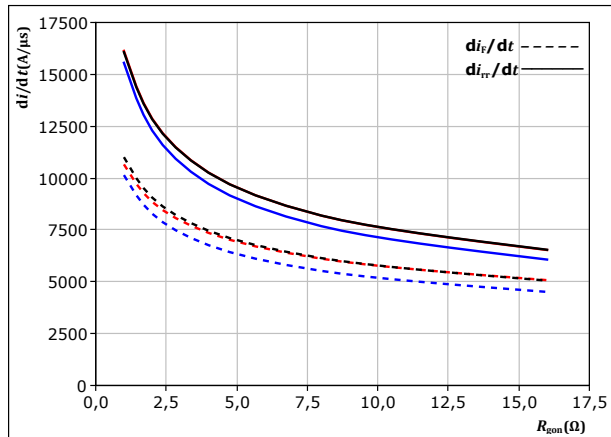


At $V_{DS} = 600$ V
 $V_{GS} = 0/15$ V
 $R_{g(on)} = 4$ Ω

T_j : 25 °C (blue)
 125 °C (black)
 150 °C (red)

figure 25. FWD

Typical rate of fall of forward and reverse recovery current as a function of turn on gate resistor
 $di_f/dt, di_r/dt = f(R_{g(on)})$

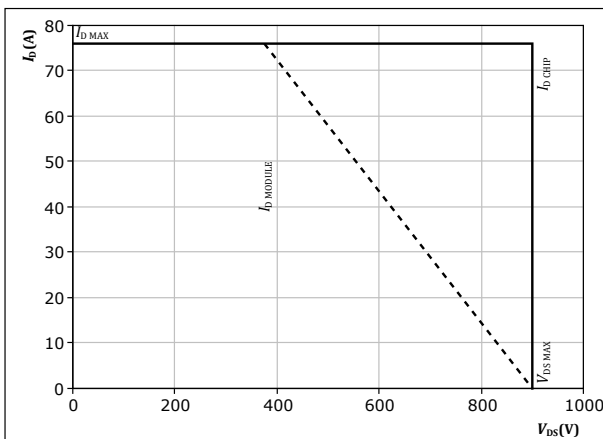


At $V_{DS} = 600$ V
 $V_{GS} = 0/15$ V
 $I_D = 20$ A

T_j : 25 °C (blue)
 125 °C (black)
 150 °C (red)

figure 26. MOSFET

Reverse bias safe operating area
 $I_D = f(V_{DS})$



At $T_j = 150$ °C
 $R_{g(on)} = 4$ Ω
 $R_{g(off)} = 4$ Ω



Boost Switching Definitions

figure 27. MOSFET

Turn-off Switching Waveforms & definition of t_{doff} , t_{Eoff} (t_{Eoff} = integrating time for E_{off})

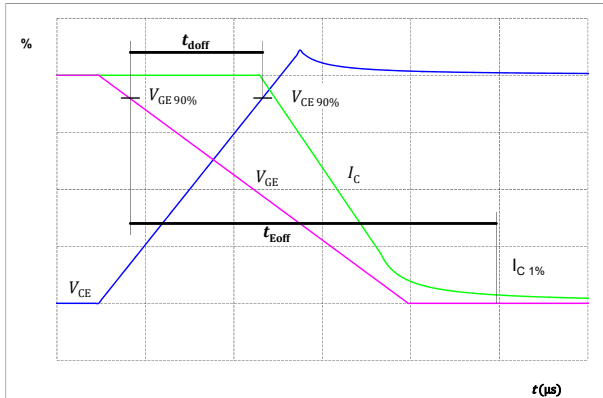


figure 28. MOSFET

Turn-on Switching Waveforms & definition of t_{don} , t_{Eon} (t_{Eon} = integrating time for E_{on})

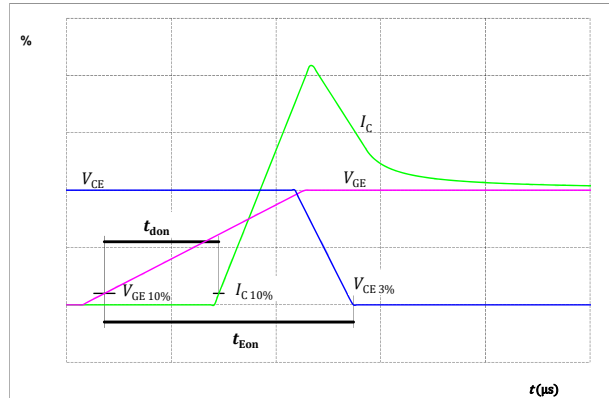


figure 29. MOSFET

Turn-off Switching Waveforms & definition of t_f

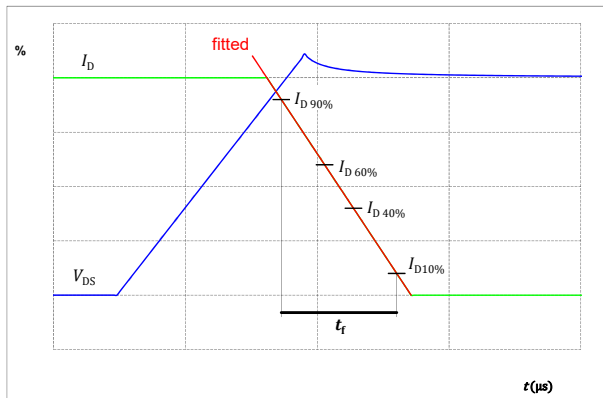
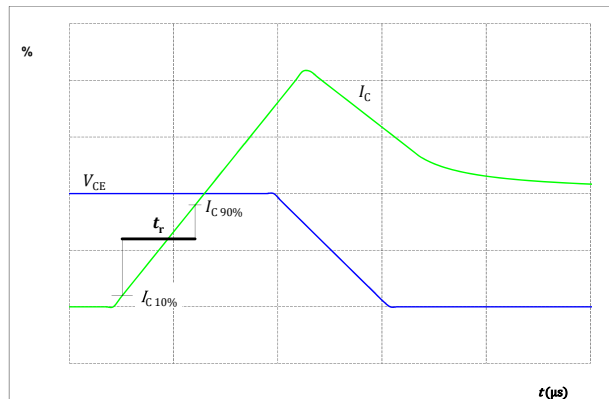


figure 30. MOSFET

Turn-on Switching Waveforms & definition of t_r





Boost Switching Definitions

figure 31. FWD

Turn-off Switching Waveforms & definition of t_{tr}

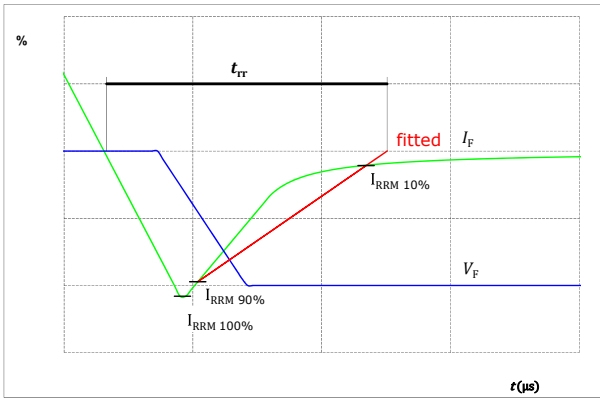


figure 32. FWD

Turn-on Switching Waveforms & definition of t_{Qr} (t_{Qr} = integrating time for Q_r)

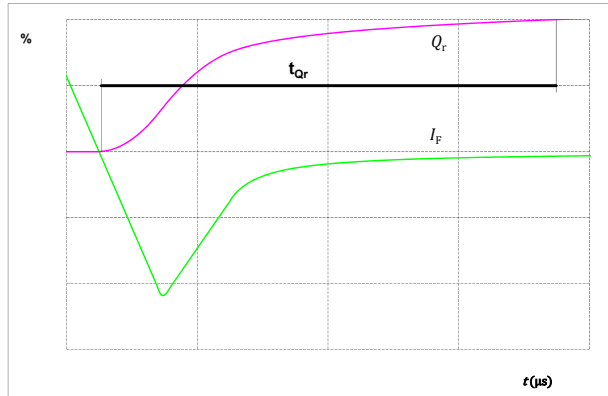
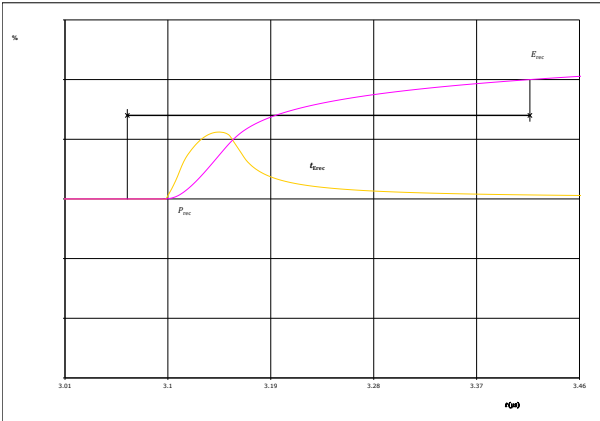


figure 33. FWD

Turn-on Switching Waveforms & definition of t_{Erec} (t_{Erec} = integrating time for E_{rec})






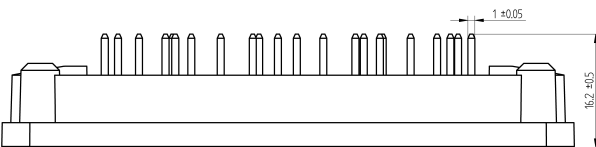
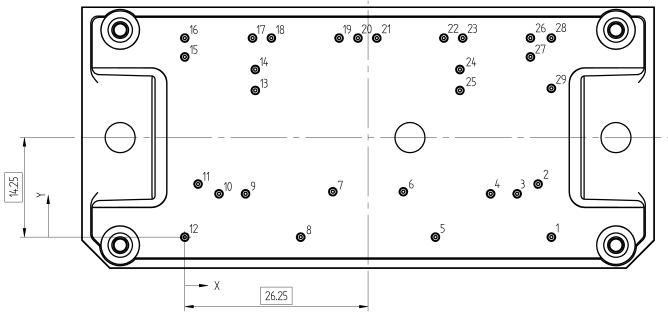
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10-FY09S2A065ME-L869L08
datasheet

| Ordering Code | |
|-----------------------|-------------------------|
| Version | Ordering Code |
| Without thermal paste | 10-FY09S2A065ME-L869L08 |

| Marking | | | | | | |
|---|-------------------|---|----------------------------|-------------------------------|--------------------------|-----------------------|
|  | Text | Name NN-NNNNNNNNNNNNNN- TTTTTWWYY UL VIN LLLLL SSSS | Date code WWYY | UL & VIN UL VIN | Lot LLLLL | Serial SSSS |
| | Datamatrix | Type&Ver TTTTTTTV | Lot number LLLLL | Serial SSSS | Date code WWYY | |

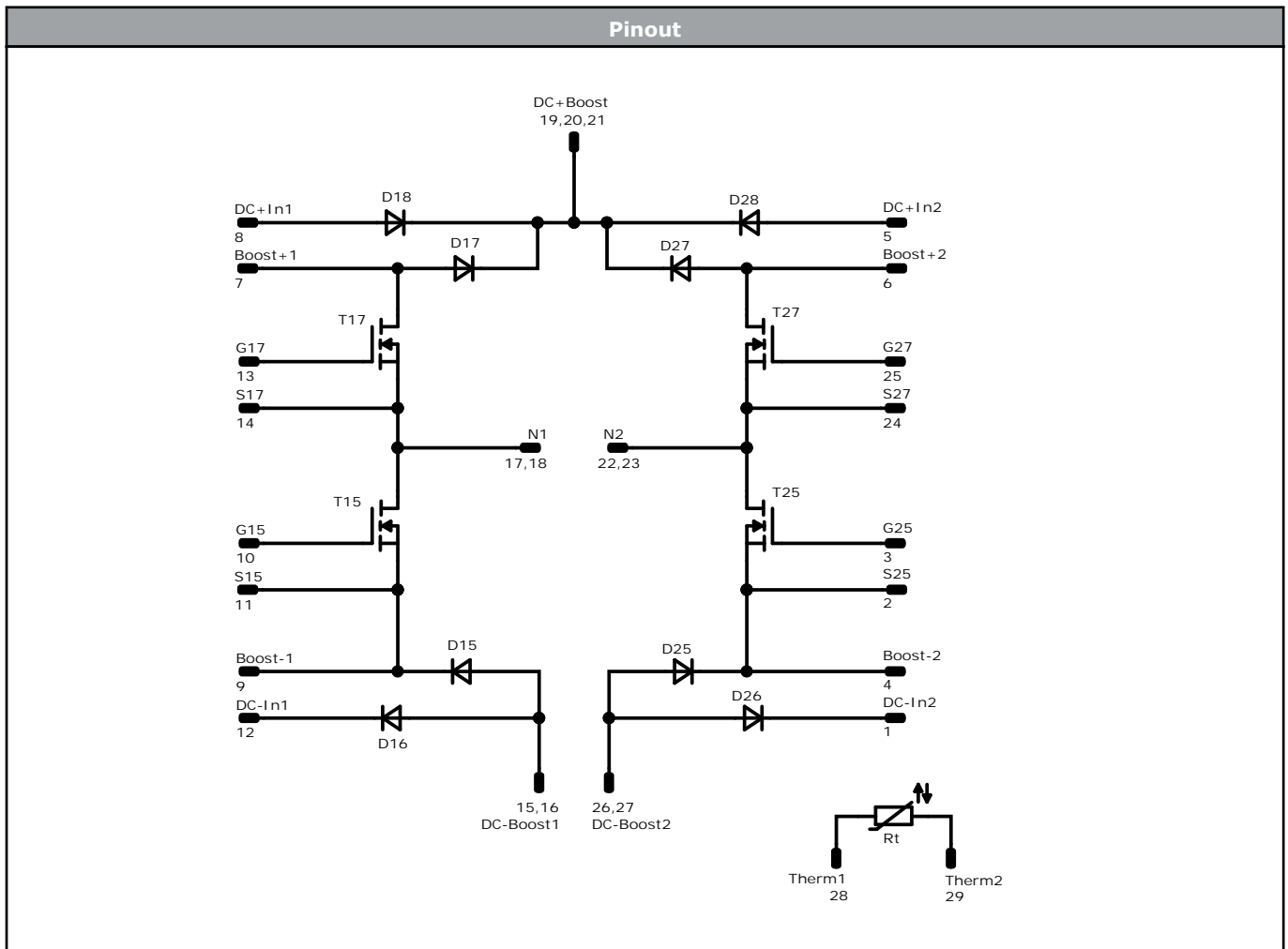
| Outline | | | |
|----------------|------|------|-----------|
| Pin table [mm] | | | |
| Pin | X | Y | Function |
| 1 | 52,5 | 0 | DC-In2 |
| 2 | 50,6 | 7,6 | S25 |
| 3 | 47,6 | 6,2 | G25 |
| 4 | 43,8 | 6,2 | Boost-2 |
| 5 | 35,9 | 0 | DC+In2 |
| 6 | 31,3 | 6,5 | Boost+2 |
| 7 | 21,2 | 6,5 | Boost+1 |
| 8 | 16,6 | 0 | DC+In1 |
| 9 | 8,7 | 6,2 | Boost-1 |
| 10 | 4,9 | 6,2 | G15 |
| 11 | 1,9 | 7,6 | S15 |
| 12 | 0 | 0 | DC-In1 |
| 13 | 10,1 | 21 | G17 |
| 14 | 10,1 | 24 | S17 |
| 15 | 0 | 25,8 | DC-Boost1 |
| 16 | 0 | 28,5 | DC-Boost1 |
| 17 | 9,7 | 28,5 | N1 |
| 18 | 12,4 | 28,5 | N1 |
| 19 | 22,1 | 28,5 | DC+Boost |
| 20 | 24,8 | 28,5 | DC+Boost |
| 21 | 27,5 | 28,5 | DC+Boost |
| 22 | 37,1 | 28,5 | N2 |
| 23 | 39,8 | 28,5 | N2 |
| 24 | 39,4 | 24 | S27 |
| 25 | 39,4 | 21 | G27 |
| 26 | 49,5 | 28,5 | DC-Boost2 |
| 27 | 49,5 | 25,8 | DC-Boost2 |
| 28 | 52,5 | 28,5 | Therm1 |
| 29 | 52,5 | 21,3 | Therm2 |

Tolerance of pinpositions: ±0.5mm at the end of pins
Dimension of coordinate axis is only offset without tolerance



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| Identification | | | | | |
|--------------------|-----------|---------|---------|--------------|---------|
| ID | Component | Voltage | Current | Function | Comment |
| T15, T17, T25, T27 | MOSFET | 900 V | 65 mΩ | Boost Switch | |
| D15, D17, D25, D27 | FWD | 1200 V | 20 A | Boost Diode | |
| D16, D18, D26, D28 | Rectifier | 1600 V | 25 A | ByPass Diode | |
| Rt | NTC | | | Thermistor | |



| Packaging instruction | | | | |
|---------------------------------------|------|----------|------|--------|
| Standard packaging quantity (SPQ) 100 | >SPQ | Standard | <SPQ | Sample |

| Handling instruction |
|---|
| Handling instructions for <i>flow 1</i> packages see vincotech.com website. |

| Package data |
|--|
| Package data for <i>flow 1</i> packages see vincotech.com website. |

| UL recognition and file number |
|---|
| This device is certified according to UL 1557 standard, UL file number E192116. For more information see vincotech.com website.  |

| Document No.: | Date: | Modification: | Pages |
|-------------------------------|--------------|--|-------|
| 10-FY09S2A065ME-L869L08-D4-14 | 17 Jul. 2019 | I_D extended | 2 |
| 10-FY09S2A065ME-L869L08-D5-14 | 23 Jun. 2020 | Correction of Boost characteristics | 2...9 |
| | | Calculation method of RBSOA (figure 26.) changed | 15 |

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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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