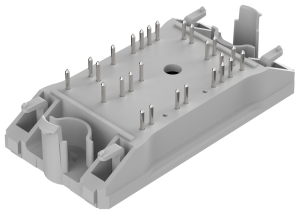
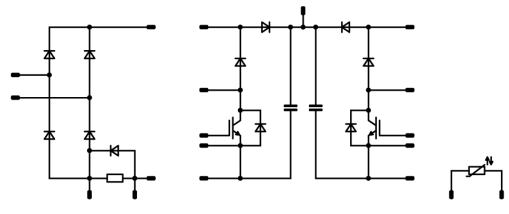




flowPFC 0 CD		650 V / 30 A	
Features		flow 0 12 mm housing	
<ul style="list-style-type: none">• High-efficient rectifier• High-efficient IGBT H5 + Stealth 2 Diode• Ultra-fast switching speed• Integrated capacitors• Thermistor			
Target applications		Schematic	
<ul style="list-style-type: none">• Power Supply• Welding & Cutting			
Types			
<ul style="list-style-type: none">• 10-FZ062TA030SM-P986D13			



Vincotech

Maximum Ratings

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

Parameter	Symbol	Conditions	Value	Unit
PFC Switch				
Collector-emitter voltage	V_{CES}		650	V
Collector current (DC current)	I_C	$T_j = T_{jmax}$ $T_s = 80\text{ °C}$	28	A
Repetitive peak collector current	I_{CRM}	t_p limited by T_{jmax}	90	A
Total power dissipation	P_{tot}	$T_j = T_{jmax}$ $T_s = 80\text{ °C}$	57	W
Gate-emitter voltage	V_{GES}		± 20	V
Maximum junction temperature	T_{jmax}		175	$^{\circ}\text{C}$

PFC Diode

Peak repetitive reverse voltage	V_{RRM}		600	V
Forward current (DC current)	I_F	$T_j = T_{jmax}$ $T_s = 80\text{ °C}$	33	A
Surge (non-repetitive) forward current	I_{FSM}	Single Half Sine Wave, $t_p = 8,3\text{ ms}$ $T_j = 25\text{ °C}$	300	A
Total power dissipation	P_{tot}	$T_j = T_{jmax}$ $T_s = 80\text{ °C}$	65	W
Maximum junction temperature	T_{jmax}		175	$^{\circ}\text{C}$

PFC Sw. Protection Diode

Peak repetitive reverse voltage	V_{RRM}		650	V
Forward current (DC current)	I_F	$T_j = T_{jmax}$ $T_s = 80\text{ °C}$	17	A
Repetitive peak forward current	I_{FRM}	t_p limited by T_{jmax}	20	A
Total power dissipation	P_{tot}	$T_j = T_{jmax}$ $T_s = 80\text{ °C}$	33	W
Maximum junction temperature	T_{jmax}		175	$^{\circ}\text{C}$



Vincotech

Maximum Ratings

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

Parameter	Symbol	Conditions	Value	Unit
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Current Transformer Protection Diode

Peak repetitive reverse voltage	V_{RRM}		650	V
Forward current (DC current)	I_F	$T_j = T_{jmax}$ $T_s = 80\text{ °C}$	17	A
Repetitive peak forward current	I_{FRM}	I_p limited by T_{jmax}	20	A
Total power dissipation	P_{tot}	$T_j = T_{jmax}$ $T_s = 80\text{ °C}$	33	W
Maximum junction temperature	T_{jmax}		175	°C

Shunt Protection Diode

Peak repetitive reverse voltage	V_{RRM}		1600	V
Forward current (DC current)	I_F	$T_j = T_{jmax}$ $T_s = 80\text{ °C}$	45	A
Surge (non-repetitive) forward current	I_{FSM}	Single Half Sine Wave, $t_p = 10\text{ ms}$ $T_j = 150\text{ °C}$	280	A
Surge current capability	I^2t		390	A ² s
Total power dissipation	P_{tot}	$T_j = T_{jmax}$ $T_s = 80\text{ °C}$	59	W
Maximum junction temperature	T_{jmax}		150	°C

Rectifier Diode

Peak repetitive reverse voltage	V_{RRM}		1600	V
Forward current (DC current)	I_F	$T_j = T_{jmax}$ $T_s = 80\text{ °C}$	45	A
Surge (non-repetitive) forward current	I_{FSM}	Single Half Sine Wave, $t_p = 10\text{ ms}$ $T_j = 150\text{ °C}$	280	A
Surge current capability	I^2t		390	A ² s
Total power dissipation	P_{tot}	$T_j = T_{jmax}$ $T_s = 80\text{ °C}$	59	W
Maximum junction temperature	T_{jmax}		150	°C

PFC Shunt

DC current	I	$T_c = 70\text{ °C}$	26	A
Power dissipation	P_{tot}	$T_c = 70\text{ °C}$	7	W



Vincotech

10-FZ062TA030SM-P986D13
datasheet

Maximum Ratings

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

Parameter	Symbol	Conditions	Value	Unit
Capacitor (DC)				
Maximum DC voltage	V_{MAX}		1000	V
Operation Temperature	T_{op}		-55 ... 125	°C

Module Properties

Thermal Properties

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

Isolation Properties

Isolation voltage	V_{isol}	DC Test Voltage* $t_p = 2\text{ s}$	4000	V
Isolation voltage	V_{isol}	AC Voltage $t_p = 1\text{ min}$	2500	V
Creepage distance			>12,7	mm
Clearance			8,99	mm
Comparative Tracking Index	CTI		≥ 200	

*100 % tested in production



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10-FZ062TA030SM-P986D13
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		

PFC Switch

Static

Gate-emitter threshold voltage	$V_{GE(th)}$	$V_{CE} = V_{GE}$			0,0003	25	3,3	4	4,7	V
Collector-emitter saturation voltage	$V_{CE(sat)}$		15		30	25 125 150		1,7 1,93 2	2,22 ⁽¹⁾	V
Collector-emitter cut-off current	I_{CES}		0	650		25			40	μA
Gate-emitter leakage current	I_{GES}		20	0		25			120	nA
Internal gate resistance	r_g							None		Ω
Input capacitance	C_{ies}	$f = 1 \text{ Mhz}$	0	25		25		2100		pF
Reverse transfer capacitance	C_{res}							7,7		pF
Gate charge	Q_g	$V_{CC} = 520 \text{ V}$	15		30	25		70		nC

Thermal

Thermal resistance junction to sink ⁽²⁾	$R_{th(j-s)}$	$\lambda_{paste} = 3,4 \text{ W/mK}$ (PSX)						1,66		K/W
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Dynamic

Turn-on delay time	$t_{d(on)}$	$R_{gon} = 16 \Omega$ $R_{goff} = 16 \Omega$	0/15	400	30	25		25,2		ns
Rise time	t_r					125		22,8		
						25		9,6		
Turn-off delay time	$t_{d(off)}$					125		10,8		
						25		143,8		
Fall time	t_f					125		159,4		
		25		4,31						
Turn-on energy (per pulse)	E_{on}	$Q_{tFWD} = 0,269 \mu\text{C}$		7,29						
		$Q_{tFWD} = 0,79 \mu\text{C}$		0,445						
Turn-off energy (per pulse)	E_{off}			0,715						
				0,132						
				0,225						



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		

PFC Diode

Static

Forward voltage	V_F				30	25 125	1,88	2,34 2,02	2,78 ⁽¹⁾	V
Reverse leakage current	I_R	$V_i = 600$ V				25 125			10 500	μ A

Thermal

Thermal resistance junction to sink ⁽²⁾	$R_{th(j-s)}$	$\lambda_{paste} = 3,4$ W/mK (PSX)						1,46		K/W
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Dynamic

Peak recovery current	I_{RRM}	$di/dt=2682$ A/ μ s $di/dt=2448$ A/ μ s	0/15	400	30	25 125		18,28 28,4		A
Reverse recovery time	t_{rr}					25 125		16,39 44,65		ns
Recovered charge	Q_r					25 125		0,269 0,79		μ C
Reverse recovered energy	E_{rec}					25 125		0,046 0,1		mWs
Peak rate of fall of recovery current	$(di_{rr}/dt)_{max}$					25 125		4655 1857		A/ μ s



Vincotech

Characteristic Values

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

PFC Sw. Protection Diode

Static

Forward voltage	V_F				10	25 125	1,23	1,67 1,56	1,87 ⁽¹⁾	V
Reverse leakage current	I_R	$V_r = 650$ V				25			0,14	μA

Thermal

Thermal resistance junction to sink ⁽²⁾	$R_{th(j-s)}$	$\lambda_{paste} = 3,4$ W/mK (PSX)						2,87		K/W
--	---------------	------------------------------------	--	--	--	--	--	------	--	-----

Current Transformer Protection Diode

Static

Forward voltage	V_F				10	25 125	1,23	1,67 1,56	1,87 ⁽¹⁾	V
Reverse leakage current	I_R	$V_r = 650$ V				25			0,14	μA

Thermal

Thermal resistance junction to sink ⁽²⁾	$R_{th(j-s)}$	$\lambda_{paste} = 3,4$ W/mK (PSX)						2,87		K/W
--	---------------	------------------------------------	--	--	--	--	--	------	--	-----

Shunt Protection Diode

Static

Forward voltage	V_F				50	25 125		1,32 1,33	1,3 ⁽¹⁾ 1,33 ⁽¹⁾	V
Reverse leakage current	I_R	$V_r = 1600$ V				25 150			20 1500	μA

Thermal

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



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		

Rectifier Diode

Static

Forward voltage	V_F				50	25 125		1,32 1,33	1,3 ⁽¹⁾ 1,33 ⁽¹⁾	V
Reverse leakage current	I_R	$V_i = 1600$ V				25 150			20 1500	μA

Thermal

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

PFC Shunt

Static

Resistance	R							10		mΩ
Tolerance							-1		1	%
Temperature coefficient	tc							50		ppm/K

Capacitor (DC)

Static

Capacitance	C	DC bias voltage = 0 V				25		100		nF
Tolerance							10		10	%
Dissipation factor		$f = 1$ kHz				25		2,5		%



Vincotech

Characteristic Values

Parameter	Symbol	Conditions					Values			Unit
		V_{GS} [V]	V_{GE} [V]	V_{DS} [V]	V_{CE} [V]	T_j [°C]	Min	Typ	Max	

Thermistor

Static

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

⁽¹⁾ Value at chip level

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



PFC Switch Characteristics

figure 1. IGBT

Typical output characteristics
 $I_C = f(V_{CE})$

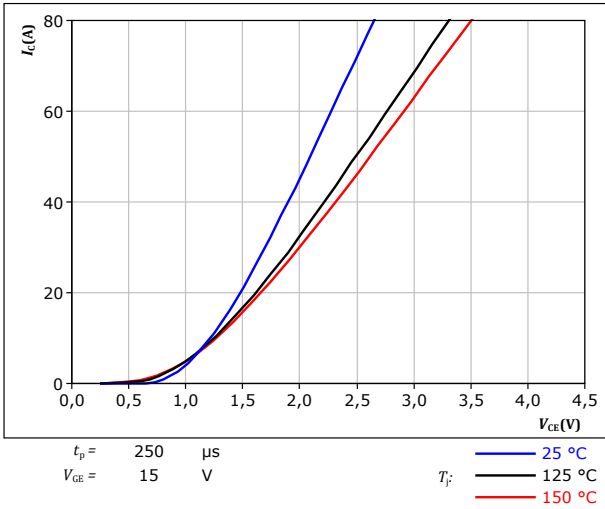


figure 2. IGBT

Typical output characteristics
 $I_C = f(V_{CE})$

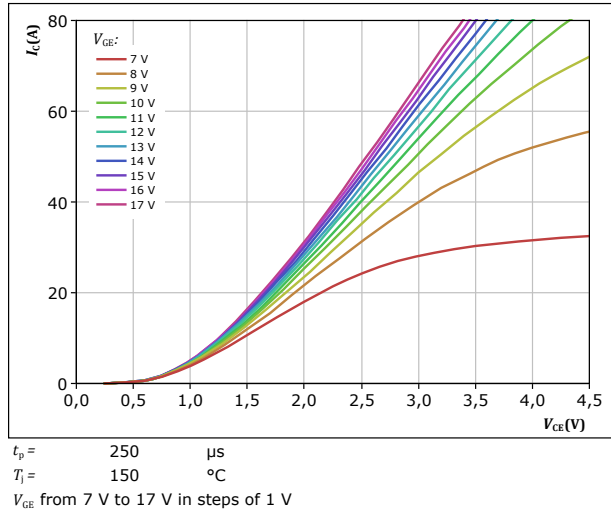


figure 3. IGBT

Typical transfer characteristics
 $I_C = f(V_{GE})$

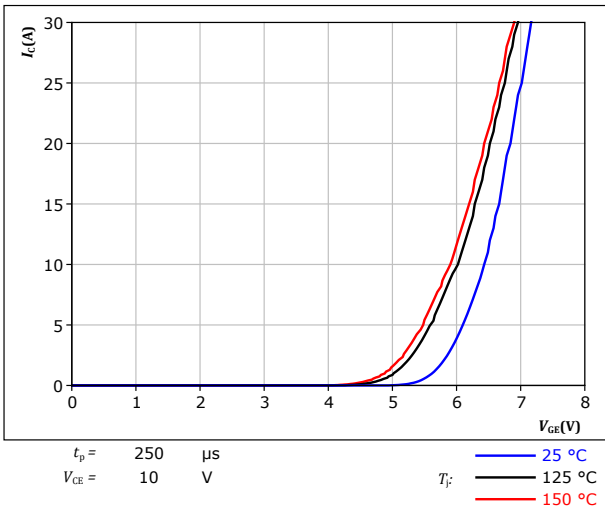
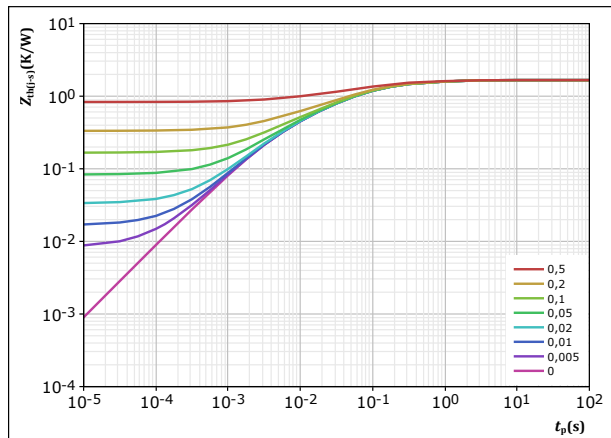


figure 4. IGBT

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



IGBT thermal model values

R (K/W)	τ (s)
1,80E-01	1,06E+00
3,72E-01	1,72E-01
6,39E-01	5,52E-02
3,20E-01	1,27E-02
1,54E-01	3,03E-03

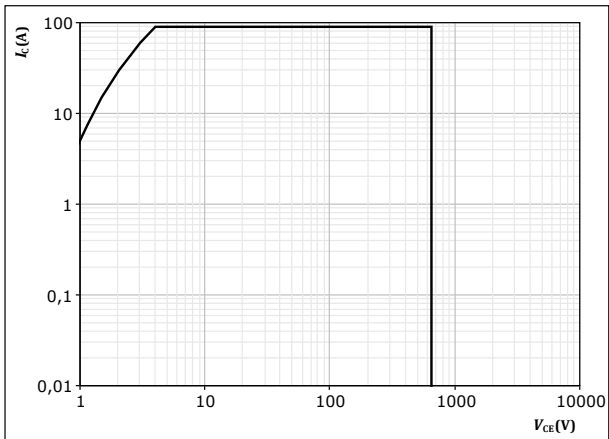


PFC Switch Characteristics

figure 5. IGBT

Safe operating area

$$I_C = f(V_{CE})$$



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



PFC Diode Characteristics

figure 6. FWD

Typical forward characteristics

$$I_F = f(V_F)$$

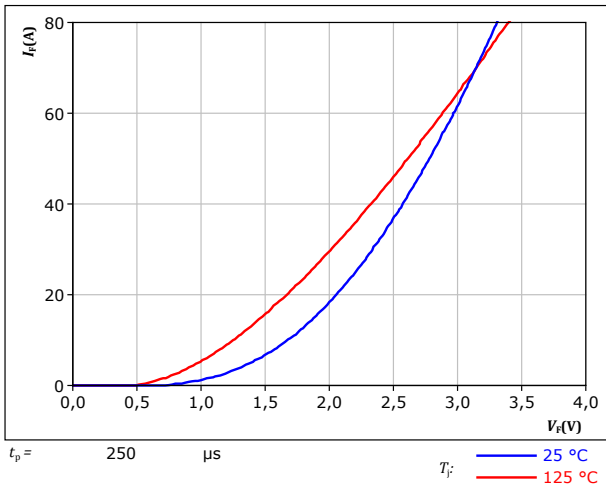
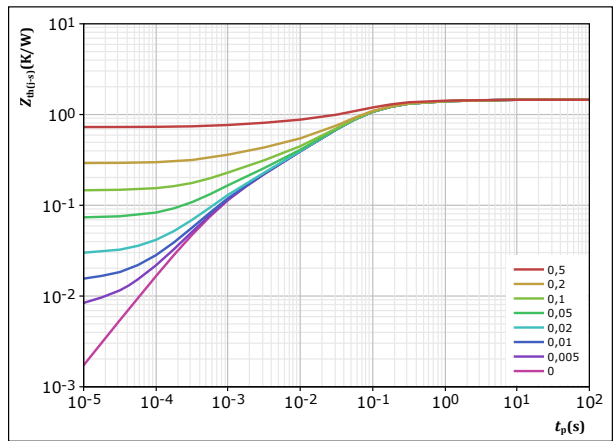


figure 7. FWD

Transient thermal impedance as a function of pulse width

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



$D = t_p / T$
 $R_{th(j-s)} = 1,456 \text{ K/W}$
 FWD thermal model values

$R \text{ (K/W)}$	$\tau \text{ (s)}$
6,84E-02	2,71E+00
1,85E-01	3,24E-01
7,77E-01	6,88E-02
2,30E-01	1,94E-02
1,15E-01	3,46E-03
8,19E-02	7,02E-04

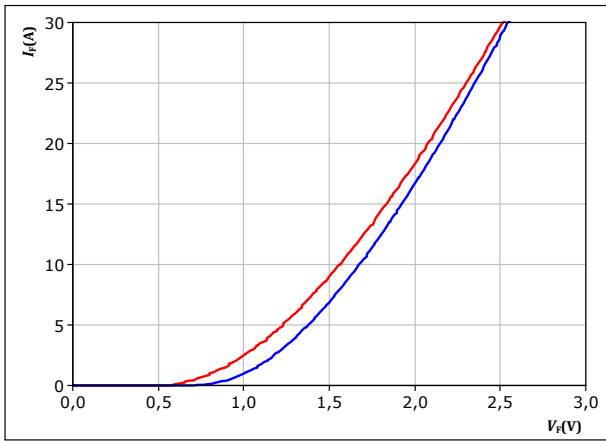


PFC Sw. Protection Diode Characteristics

figure 8. FWD

Typical forward characteristics

$$I_F = f(V_F)$$

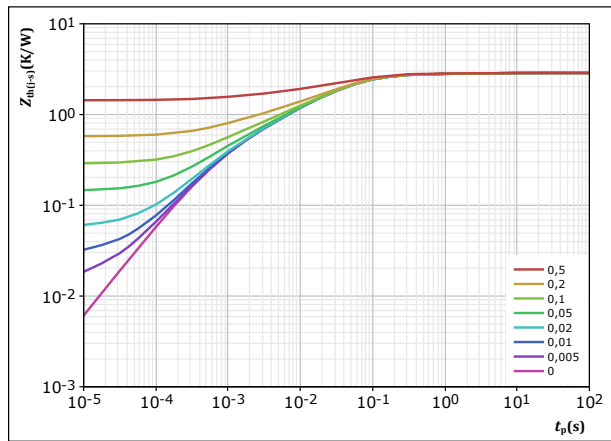


$t_p = 250 \mu s$
 $T_j: \text{ — } 25 \text{ }^\circ\text{C}$
 $\text{ — } 125 \text{ }^\circ\text{C}$

figure 9. FWD

Transient thermal impedance as a function of pulse width

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



$D = t_p / T$
 $R_{th(j-s)} = 2,873 \text{ K/W}$
FWD thermal model values

R (K/W)	τ (s)
6,53E-02	3,94E+00
1,48E-01	4,48E-01
1,31E+00	5,96E-02
7,32E-01	1,36E-02
4,04E-01	2,79E-03
2,11E-01	5,37E-04



Current Transformer Protection Diode Characteristics

figure 10. FWD

Typical forward characteristics

$$I_F = f(V_F)$$

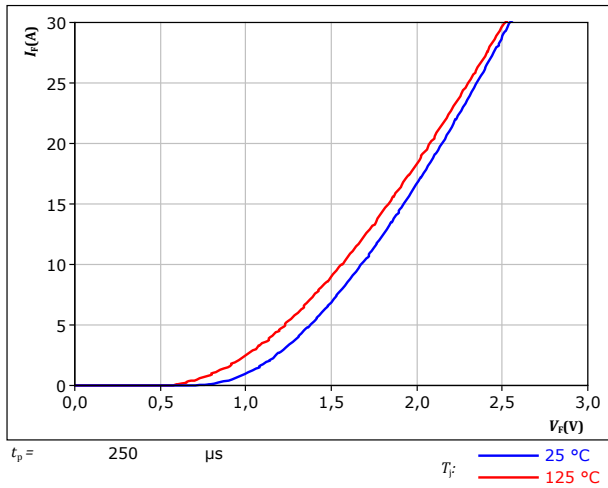
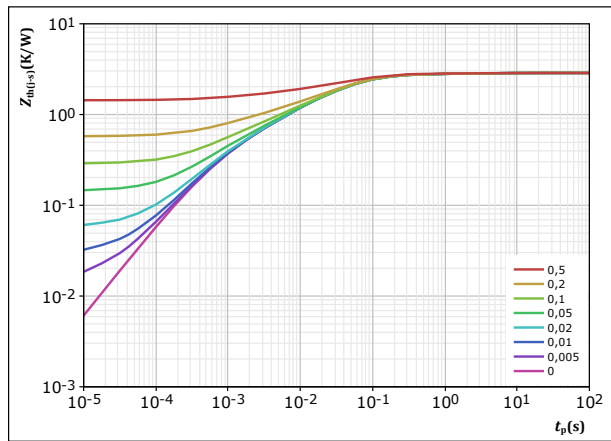


figure 11. FWD

Transient thermal impedance as a function of pulse width

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



$D = t_p / T$

$R_{th(j-s)} = 2,873 \text{ K/W}$

FWD thermal model values

$R \text{ (K/W)}$	$\tau \text{ (s)}$
6,53E-02	3,94E+00
1,48E-01	4,48E-01
1,31E+00	5,96E-02
7,32E-01	1,36E-02
4,04E-01	2,79E-03
2,11E-01	5,37E-04



Shunt Protection Diode Characteristics

figure 12. Rectifier

Typical forward characteristics

$$I_F = f(V_F)$$

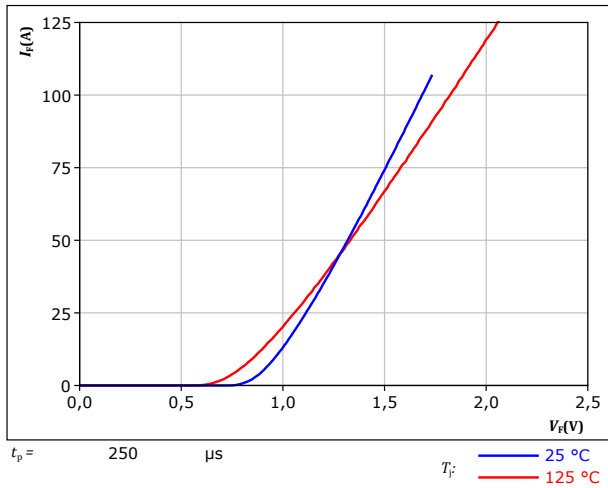
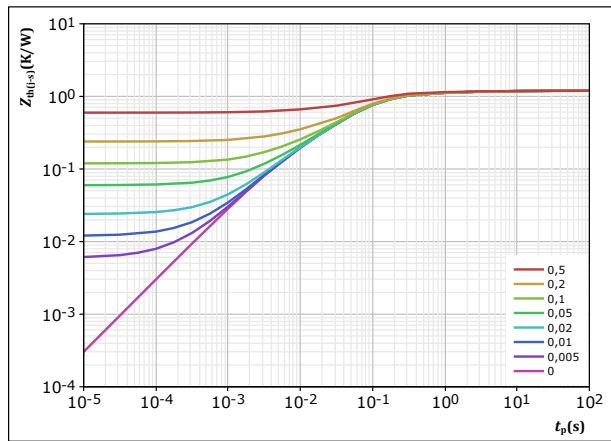


figure 13. Rectifier

Transient thermal impedance as a function of pulse width

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



$D = t_p / T$

$R_{th(j-s)} = 1,195 \text{ K/W}$

Rectifier thermal model values

$R \text{ (K/W)}$	$\tau \text{ (s)}$
4,87E-02	6,80E+00
1,57E-01	6,29E-01
7,33E-01	9,05E-02
1,69E-01	3,10E-02
7,37E-02	4,76E-03
1,39E-02	1,53E-02



Rectifier Diode Characteristics

figure 14. Rectifier

Typical forward characteristics

$$I_F = f(V_F)$$

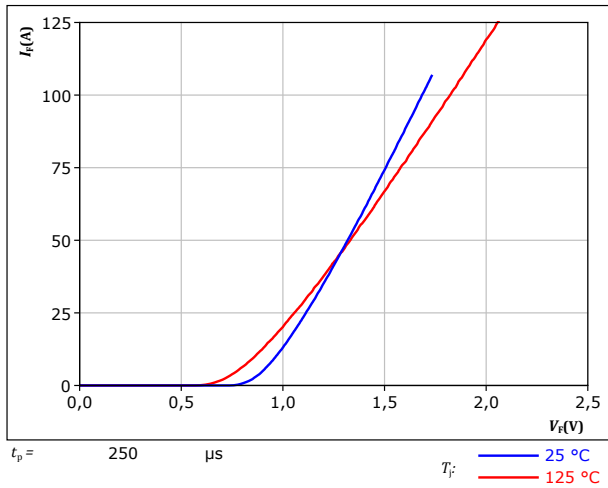
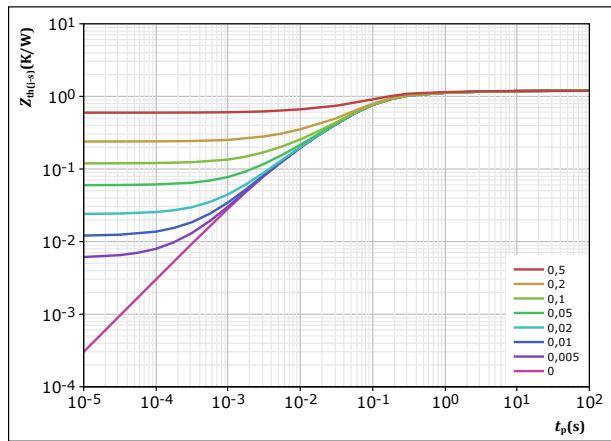


figure 15. Rectifier

Transient thermal impedance as a function of pulse width

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



$D = t_p / T$

$R_{th(j-s)} = 1,195 \text{ K/W}$

Rectifier thermal model values

$R \text{ (K/W)}$	$\tau \text{ (s)}$
4,87E-02	6,80E+00
1,57E-01	6,29E-01
7,33E-01	9,05E-02
1,69E-01	3,10E-02
7,37E-02	4,76E-03
1,39E-02	1,53E-02

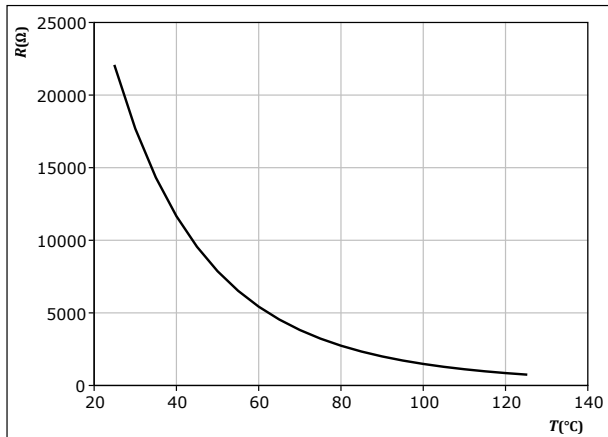


Thermistor Characteristics

figure 16. Thermistor

Typical NTC characteristic as function of temperature

$$R_T = f(T)$$

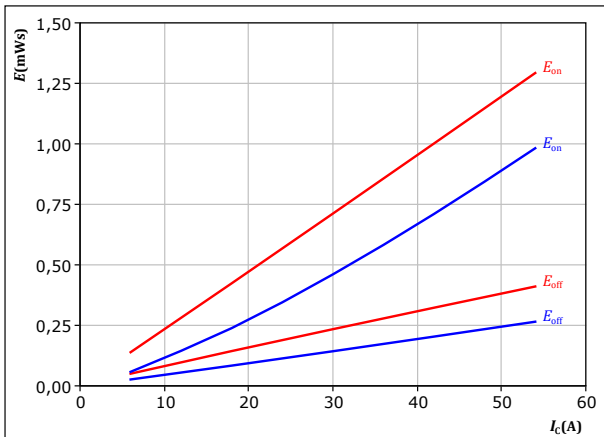




PFC Switching Characteristics

figure 17. IGBT

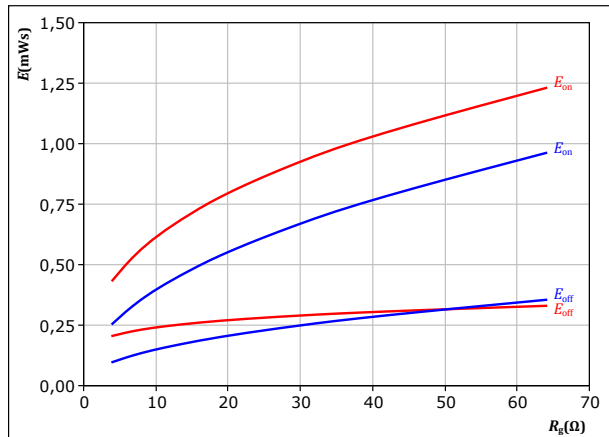
Typical switching energy losses as a function of collector current
 $E = f(I_c)$



With an inductive load at
 $V_{CE} = 400$ V
 $V_{GE} = 0/15$ V
 $R_{gon} = 16$ Ω
 $R_{goff} = 16$ Ω
 T_j : — 25 °C
— 125 °C

figure 18. IGBT

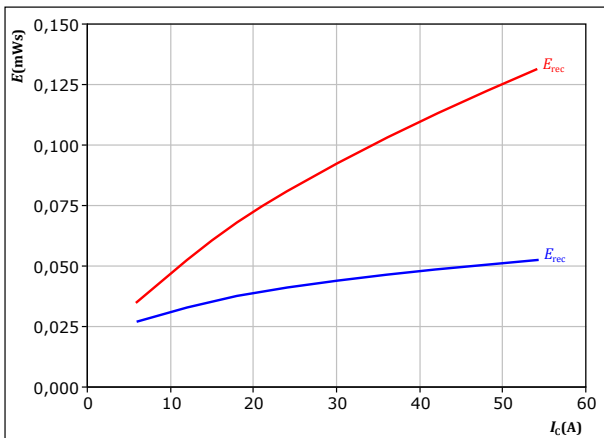
Typical switching energy losses as a function of gate resistor
 $E = f(R_g)$



With an inductive load at
 $V_{CE} = 400$ V
 $V_{GE} = 0/15$ V
 $I_c = 30$ A
 T_j : — 25 °C
— 125 °C

figure 19. FWD

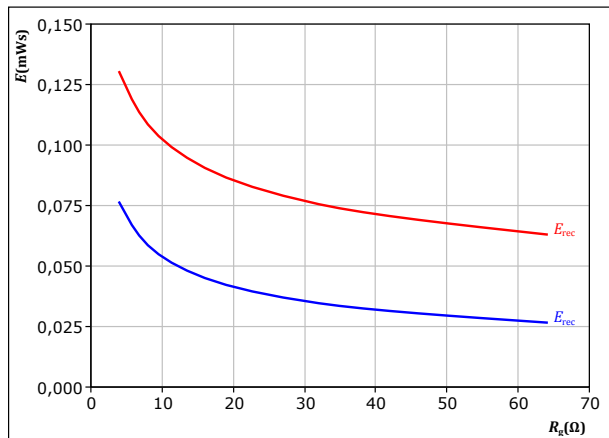
Typical reverse recovered energy loss as a function of collector current
 $E_{rec} = f(I_c)$



With an inductive load at
 $V_{CE} = 400$ V
 $V_{GE} = 0/15$ V
 $R_{gon} = 16$ Ω
 T_j : — 25 °C
— 125 °C

figure 20. FWD

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



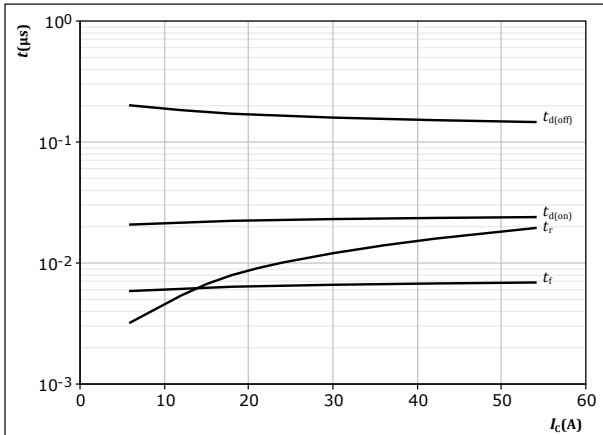
With an inductive load at
 $V_{CE} = 400$ V
 $V_{GE} = 0/15$ V
 $I_c = 30$ A
 T_j : — 25 °C
— 125 °C



PFC Switching Characteristics

figure 21. IGBT

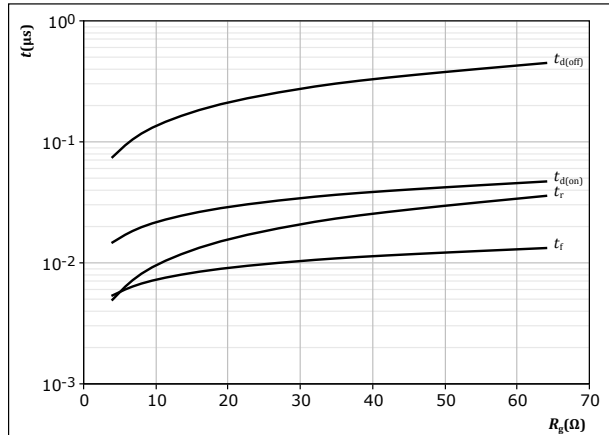
Typical switching times as a function of collector current
 $t = f(I_c)$



With an inductive load at
 $T_j = 125 \text{ }^\circ\text{C}$
 $V_{CE} = 400 \text{ V}$
 $V_{GE} = 0/15 \text{ V}$
 $R_{g(on)} = 16 \text{ } \Omega$
 $R_{g(off)} = 16 \text{ } \Omega$

figure 22. IGBT

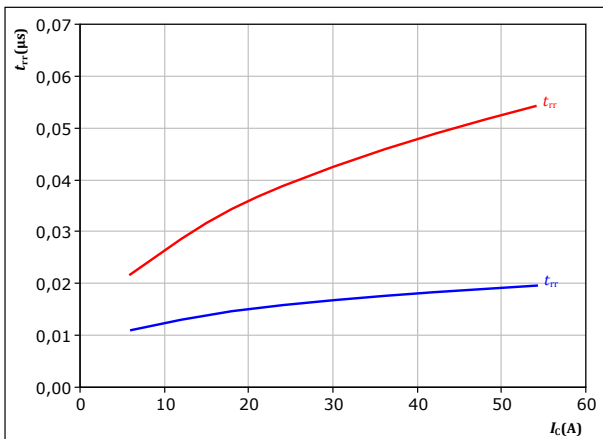
Typical switching times as a function of gate resistor
 $t = f(R_g)$



With an inductive load at
 $T_j = 125 \text{ }^\circ\text{C}$
 $V_{CE} = 400 \text{ V}$
 $V_{GE} = 0/15 \text{ V}$
 $I_c = 30 \text{ A}$

figure 23. FWD

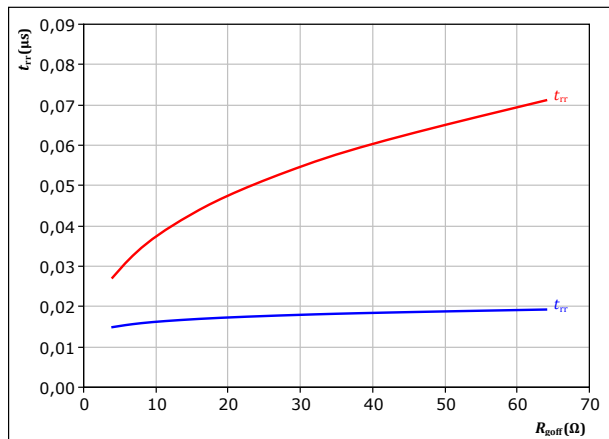
Typical reverse recovery time as a function of collector current
 $t_{rr} = f(I_c)$



With an inductive load at
 $V_{CE} = 400 \text{ V}$
 $V_{GE} = 0/15 \text{ V}$
 $R_{g(on)} = 16 \text{ } \Omega$
 $T_j:$ — 25 °C
 — 125 °C

figure 24. FWD

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



With an inductive load at
 $V_{CE} = 400 \text{ V}$
 $V_{GE} = 0/15 \text{ V}$
 $I_c = 30 \text{ A}$
 $T_j:$ — 25 °C
 — 125 °C

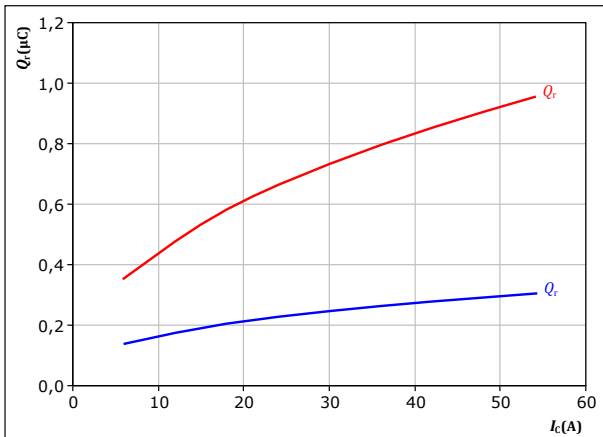


PFC Switching Characteristics

figure 25. FWD

Typical recovered charge as a function of collector current

$$Q_r = f(I_c)$$



With an inductive load at

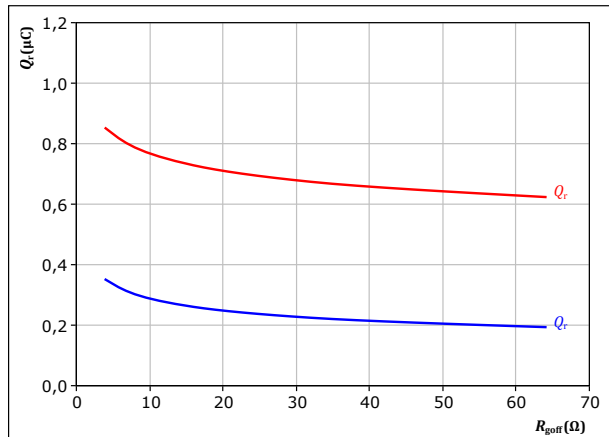
$V_{CE} = 400$ V
 $V_{GE} = 0/15$ V
 $R_{goff} = 16$ Ω

T_j : — 25 °C
— 125 °C

figure 26. FWD

Typical recovered charge as a function of turn off gate resistor

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



With an inductive load at

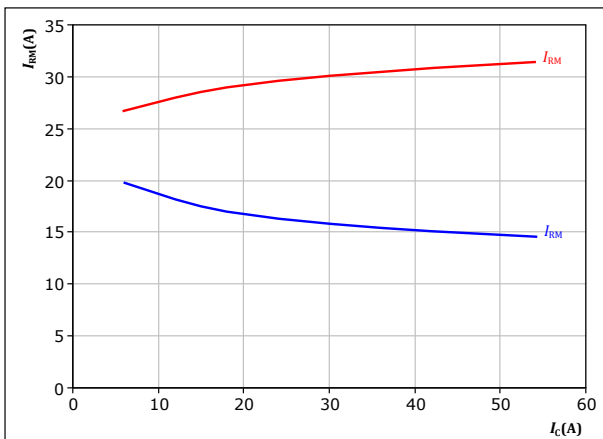
$V_{CE} = 400$ V
 $V_{GE} = 0/15$ V
 $I_c = 30$ A

T_j : — 25 °C
— 125 °C

figure 27. FWD

Typical peak reverse recovery current as a function of collector current

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



With an inductive load at

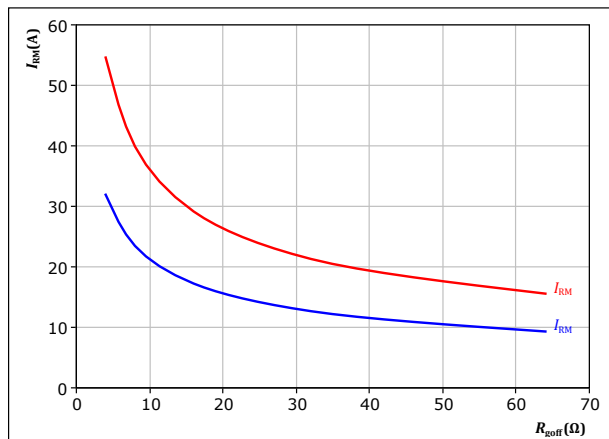
$V_{CE} = 400$ V
 $V_{GE} = 0/15$ V
 $R_{goff} = 16$ Ω

T_j : — 25 °C
— 125 °C

figure 28. FWD

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

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



With an inductive load at

$V_{CE} = 400$ V
 $V_{GE} = 0/15$ V
 $I_c = 30$ A

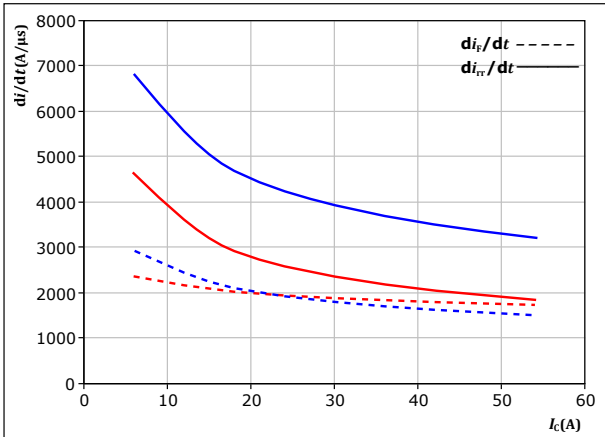
T_j : — 25 °C
— 125 °C



PFC Switching Characteristics

figure 29. FWD

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



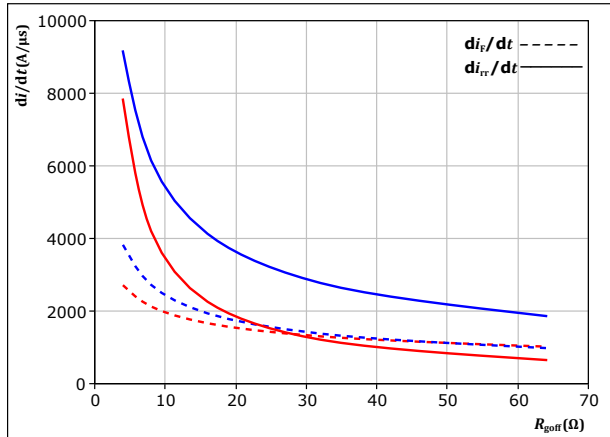
With an inductive load at

$V_{CE} = 400$ V
 $V_{GE} = 0/15$ V
 $R_{goff} = 16$ Ω

T_j : — 25 °C
 — 125 °C

figure 30. FWD

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



With an inductive load at

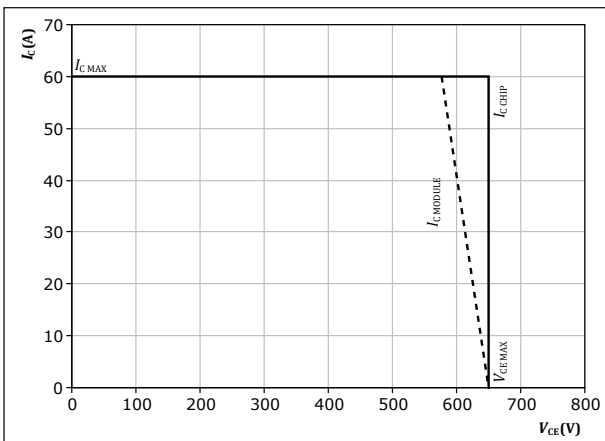
$V_{CE} = 400$ V
 $V_{GE} = 0/15$ V
 $I_c = 30$ A

T_j : — 25 °C
 — 125 °C

figure 31. IGBT

Reverse bias safe operating area

$I_c = f(V_{CE})$



At $T_j = 125$ °C
 $R_{goff} = 16$ Ω
 $R_{goff} = 16$ Ω



PFC Switching Definitions

figure 32. IGBT
Turn-off Switching Waveforms & definition of t_{doff} , t_{Eoff} (t_{Eoff} = integrating time for E_{off})

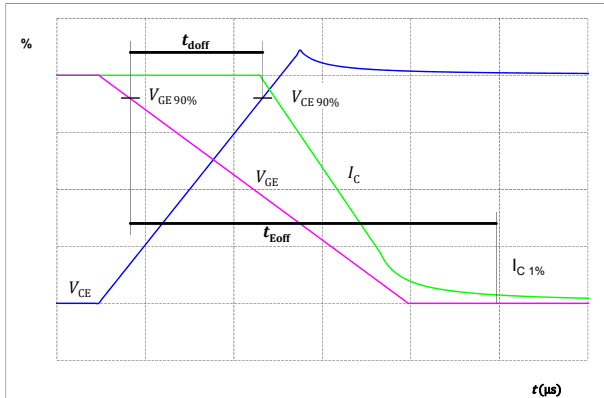


figure 33. IGBT
Turn-on Switching Waveforms & definition of t_{don} , t_{Eon} (t_{Eon} = integrating time for E_{on})

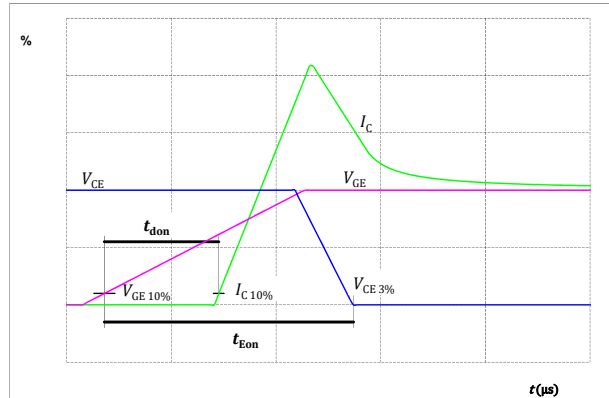


figure 34. IGBT
Turn-off Switching Waveforms & definition of t_f

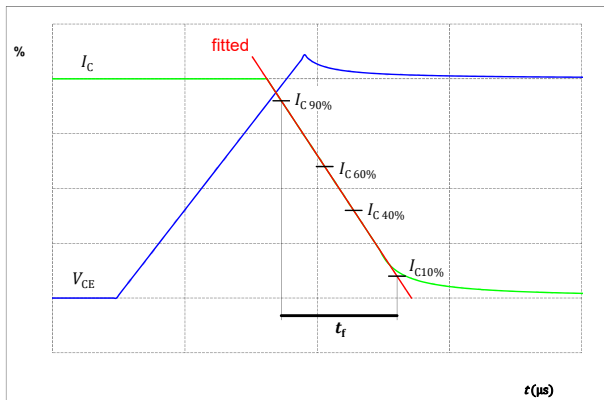
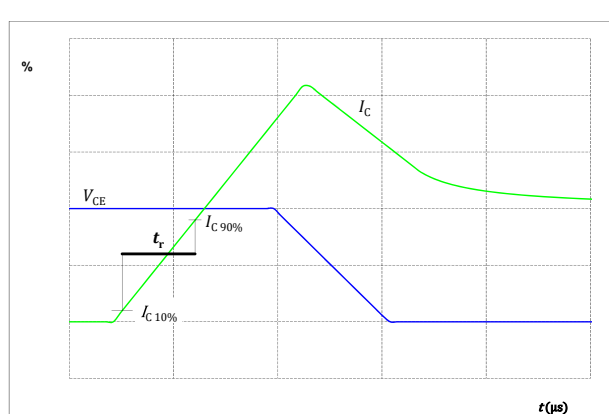


figure 35. IGBT
Turn-on Switching Waveforms & definition of t_r





PFC Switching Definitions

figure 36. FWD

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

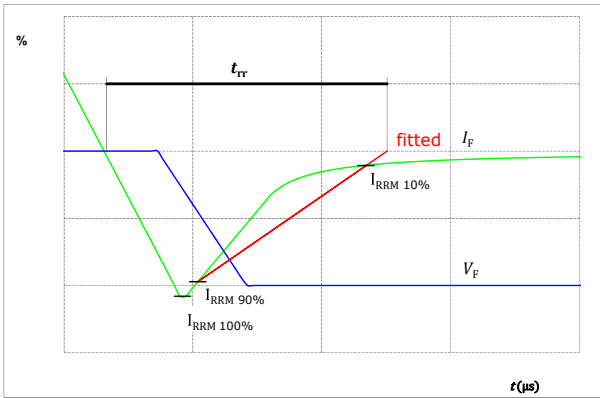
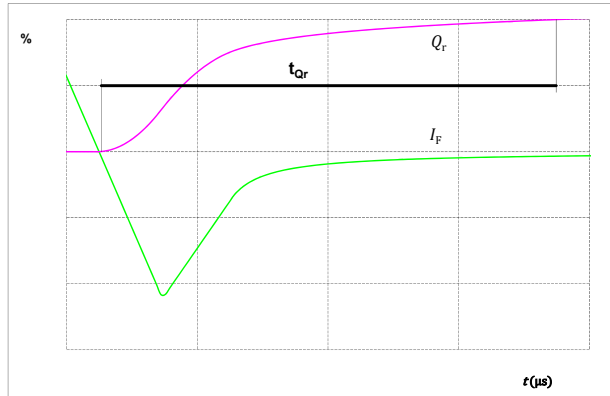


figure 37. FWD

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





Vincotech

10-FZ062TA030SM-P986D13
datasheet

Ordering Code	
Version	Ordering Code
Without thermal paste	10-FZ062TA030SM-P986D13
With thermal paste (5,2 W/mK, PTM6000HV)	10-FZ062TA030SM-P986D13-/7/
With thermal paste (3,4 W/mK, PSX-P7)	10-FZ062TA030SM-P986D13-/3/

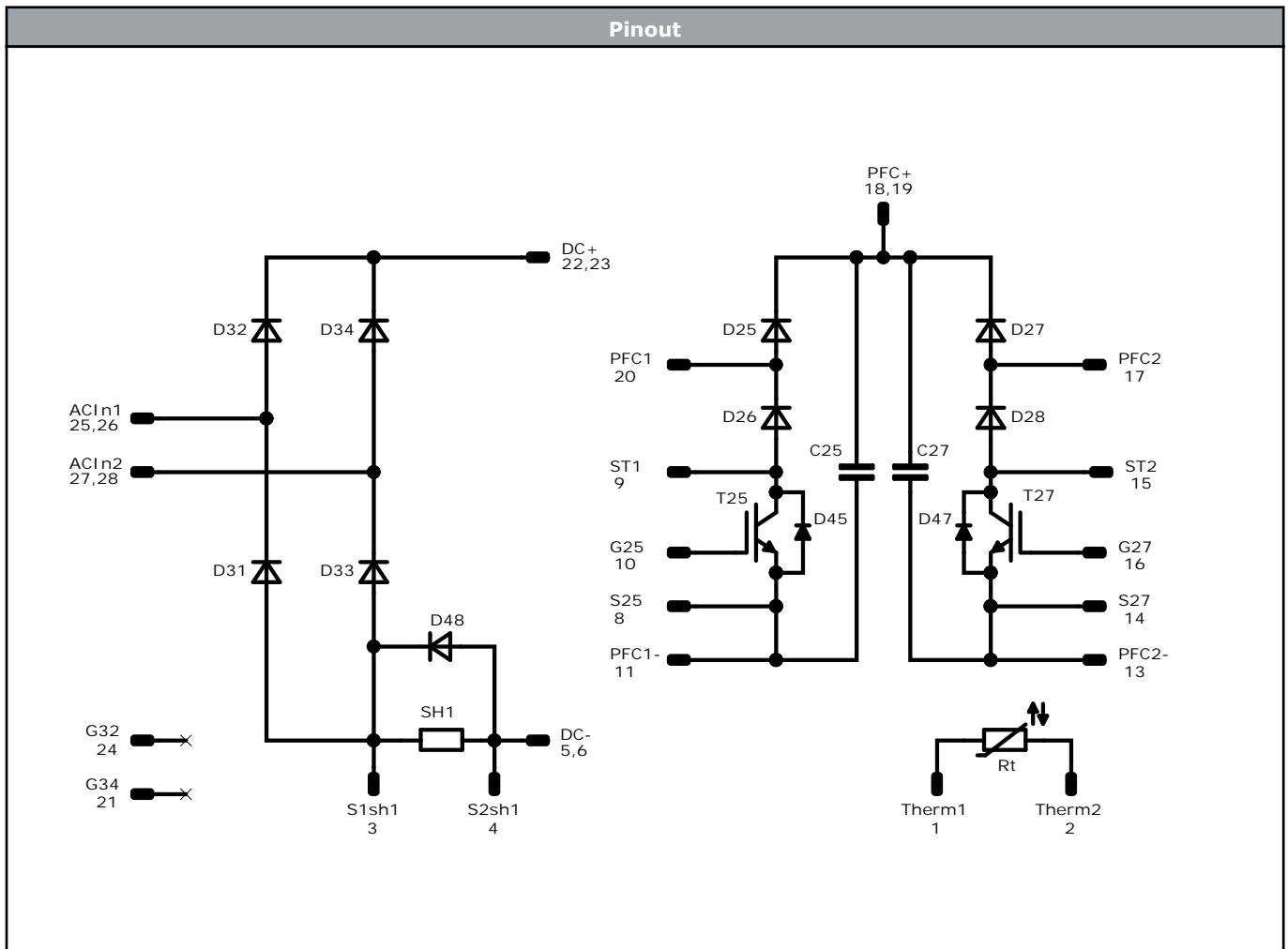
Marking						
	Text	Name	Date code	UL & VIN	Lot	Serial
		NN-NNNNNNNNNNNNNN- TTTTIV	WWYY	UL VIN	LLLLL	SSSS
	Datamatrix	Type&Ver	Lot number	Serial	Date code	
		TTTTTIV	LLLLL	SSSS	WWYY	

Outline			
Pin table [mm]			
Pin	X	Y	Function
1	33,5	0	Therm1
2	33,5	2,8	Therm2
3	29,5	2,8	S1sh1
4	29,5	0	S2sh1
5	26,7	0	DC-
6	23,9	0	DC-
7	not assembled		
8	14,85	0	S25
9	14,05	13,35	ST1
10	12,05	0	G25
11	9,5	12,05	PFC1-
12	not assembled		
13	6,7	12,05	PFC2-
14	3,9	0	S27
15	2,2	13,35	ST2
16	1,1	0	G27
17	0	22,7	PFC2
18	7,1	22,7	PFC+
19	7,1	20,2	PFC+
20	14,2	22,7	PFC1
21	20,7	22,7	G34
22	23,5	22,7	DC+
23	26	22,7	DC+
24	28,8	22,7	G32
25	33,5	18,55	ACIn1
26	33,5	16,05	ACIn1
27	33,5	8,7	ACIn2
28	31	8,7	ACIn2

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



Vincotech



Identification					
ID	Component	Voltage	Current	Function	Comment
T25, T27	IGBT	650 V	30 A	PFC Switch	
D25, D27	FWD	600 V	30 A	PFC Diode	
D45, D47	FWD	650 V	10 A	PFC Sw. Protection Diode	
D26, D28	FWD	650 V	10 A	Current Transformer Protection Diode	
D48	Rectifier	1600 V	50 A	Shunt Protection Diode	
D31, D32, D33, D34	Rectifier	1600 V	50 A	Rectifier Diode	
SH1	Shunt			PFC Shunt	
C25, C27	Capacitor	1000 V		Capacitor (DC)	
Rt	NTC			Thermistor	




Packaging instruction				
Standard packaging quantity (SPQ) 135	>SPQ	Standard	<SPQ	Sample

Handling instruction
Handling instructions for <i>flow 0</i> packages see vincotech.com website.

Package data
Package data for <i>flow 0</i> packages see vincotech.com website.

Vincotech thermistor reference
See Vincotech thermistor reference table at 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-FZ062TA030SM-P986D13-D2-14	12 Sep. 2021	New Datasheet format, module is unchanged Correct tau values of Shunt Protection Diode and Rectifier Diode thermal characteristics	

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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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