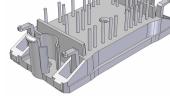
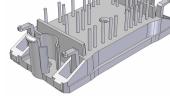
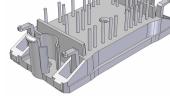
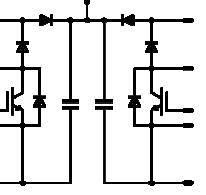
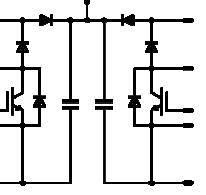
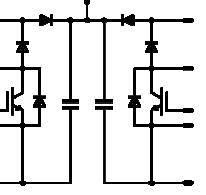


flow PFC 0		600 V / 2 x 15 A / 50 kHz				
<table border="1"> <thead> <tr> <th>Features</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> • Vincotech clip-in housing • Compact and low inductance design • Suitable for Interleaved topology • Suitable for current sensing in collector • Ultrafast boost IGBT and FWD </td> </tr> </tbody> </table>	Features	<ul style="list-style-type: none"> • Vincotech clip-in housing • Compact and low inductance design • Suitable for Interleaved topology • Suitable for current sensing in collector • Ultrafast boost IGBT and FWD 		<table border="1"> <thead> <tr> <th>flow 0 housing</th> </tr> </thead> <tbody> <tr> <td></td> </tr> </tbody> </table>	flow 0 housing	
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<table border="1"> <thead> <tr> <th>Types</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> • 10-F0062TA030FB05-P983D59, without SCR, current sense in collector • 10-F0062TA030FB06-P983D79, without SCR, current sense in collector </td> </tr> </tbody> </table>	Types	<ul style="list-style-type: none"> • 10-F0062TA030FB05-P983D59, without SCR, current sense in collector • 10-F0062TA030FB06-P983D79, without SCR, current sense in collector 				
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Maximum Ratings

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

Parameter	Symbol	Condition	Value	Unit
Input Rectifier Diode				
Repetitive peak reverse voltage	V_{RRM}		1600	V
DC forward current	I_F	$T_j=T_{j,\max}$ $T_h=80^\circ\text{C}$ $T_c=80^\circ\text{C}$	35	A
Surge forward current	I_{FSM}		250	A
I^2t -value	I^2t	$t_p=10\text{ms}$ $T_j=25^\circ\text{C}$	310	A^2s
Power dissipation per Diode	P_{tot}	$T_j=T_{j,\max}$ $T_h=80^\circ\text{C}$ $T_c=80^\circ\text{C}$	40	W
Maximum Junction Temperature	$T_{j,\max}$		150	$^\circ\text{C}$

PFC IGBT

Collector-emitter break down voltage	V_{CE}		600	V
DC collector current	I_C	$T_j=T_{j,\max}$ $T_h=80^\circ\text{C}$ $T_c=80^\circ\text{C}$	19	A
Repetitive peak collector current	I_{Cpulse}	t_p limited by $T_{j,\max}$	90	A
Power dissipation per IGBT	P_{tot}	$T_j=T_{j,\max}$ $T_h=80^\circ\text{C}$ $T_c=80^\circ\text{C}$	57	W
Gate-emitter peak voltage	V_{GE}		+/- 20	V
Maximum Junction Temperature	$T_{j,\max}$		150	$^\circ\text{C}$

Maximum Ratings

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

Parameter	Symbol	Condition	Value	Unit
-----------	--------	-----------	-------	------

C.T. Inverse diode

Peak Repetitive Reverse Voltage	V_{RRM}		600	V
DC forward current	I_F	$T_j=T_j\max$ $T_h=80^\circ\text{C}$ $T_c=80^\circ\text{C}$	8	A
Repetitive peak forward current	I_{FRM}	t_p limited by $T_j\max$	16	A
Power dissipation per Diode	P_{tot}	$T_j=T_j\max$ $T_h=80^\circ\text{C}$ $T_c=80^\circ\text{C}$	14	W
Maximum Junction Temperature	$T_j\max$		175	$^\circ\text{C}$

PFC Diode

Peak Repetitive Reverse Voltage	V_{RRM}		600	V
DC forward current	I_F	$T_j=T_j\max$ $T_h=80^\circ\text{C}$ $T_c=80^\circ\text{C}$	20	A
Repetitive peak forward current	I_{FRM}	t_p limited by $T_j\max$	40	A
Power dissipation	P_{tot}	$T_j=T_j\max$ $T_h=80^\circ\text{C}$ $T_c=80^\circ\text{C}$	31	W
Maximum Junction Temperature	$T_j\max$		600	$^\circ\text{C}$

PFC Shunt(P983D59)

DC forward current	I_F	$T_c=25^\circ\text{C}$	36,5	A
Power dissipation per Shunt	P_{tot}	$T_c=25^\circ\text{C}$	10	W

PFC Shunt(P983D79)

DC forward current	I_F	$T_c=25^\circ\text{C}$	18,2	A
Power dissipation per Shunt	P_{tot}	$T_c=25^\circ\text{C}$	5	W

DC link Capacitor

Max.DC voltage	V_{MAX}	$T_c=25^\circ\text{C}$	500	V
----------------	-----------	------------------------	-----	---

Thermal Properties

Storage temperature	T_{stg}		-40...+125	$^\circ\text{C}$
Operation temperature under switching condition	T_{op}		-40...+($T_j\max$ - 25)	$^\circ\text{C}$

Insulation Properties

Insulation voltage	V_{is}	$t=2\text{s}$	DC voltage	4000	V
Creepage distance				min 12,7	mm
Clearance				min 12,7	mm

Characteristic Values

Parameter	Symbol	Conditions					Value			Unit
			V _{GE} [V] or V _{GS} [V]	V _I [V] or V _{CE} [V] or V _{DS} [V]	I _C [A] or I _F [A] or I _D [A]	T _J	Min	Typ	Max	
Input Rectifier Diode										
Forward voltage	V _F				30	T _J =25°C T _J =125°C		1,16 1,11	1,4	V
Threshold voltage (for power loss calc. only)	V _{to}				30	T _J =25°C T _J =125°C		0,9 0,77		V
Slope resistance (for power loss calc. only)	r _t				30	T _J =25°C T _J =125°C		9 12		mΩ
Reverse current	I _r			1500		T _J =25°C T _J =150°C			0,02 2	mA
Thermal resistance chip to heatsink per chip	R _{thJH}	Thermal grease thickness≤50um λ = 1 W/mK						1,72		K/W
PFC IGBT										
Gate-emitter threshold voltage	V _{GE(th)}		V _{ce}		0,0005	T _J =25°C T _J =125°C	3	4	5	V
Collector-emitter saturation voltage	V _{CE(sat)}				30	T _J =25°C T _J =125°C		2,89 3,43	3,3	V
Collector-emitter cut-off	I _{CES}			0	600	T _J =25°C T _J =125°C			30	μA
Gate-emitter leakage current	I _{GES}			20	0	T _J =25°C T _J =125°C			200	nA
Integrated Gate resistor	R _{gint}							n.a.		Ω
Turn-on delay time	t _{d(on)}	R _{gooff} =2Ω R _{gon} =2Ω	15	400	18	T _J =25°C T _J =125°C		15,8 15,4		ns
Rise time	t _r					T _J =25°C T _J =125°C		6,4 7,4		
Turn-off delay time	t _{d(off)}					T _J =25°C T _J =125°C		107,6 120,4		
Fall time	t _f					T _J =25°C T _J =125°C		4,2 6,6		
Turn-on energy loss per pulse	E _{on}					T _J =25°C T _J =125°C		0,2197 0,4012		
Turn-off energy loss per pulse	E _{off}					T _J =25°C T _J =125°C		0,1983 0,3086		
Input capacitance	C _{ies}							1500		
Output capacitance	C _{oss}	f=1MHz	0	25	T _J =25°C			150		pF
Reverse transfer capacitance	C _{rss}							92		
Gate charge	Q _{Gate}							92		nC
Thermal resistance chip to heatsink per chip	R _{thJH}	Thermal grease thickness≤50um λ = 1 W/mK						1,22		K/W

Characteristic Values

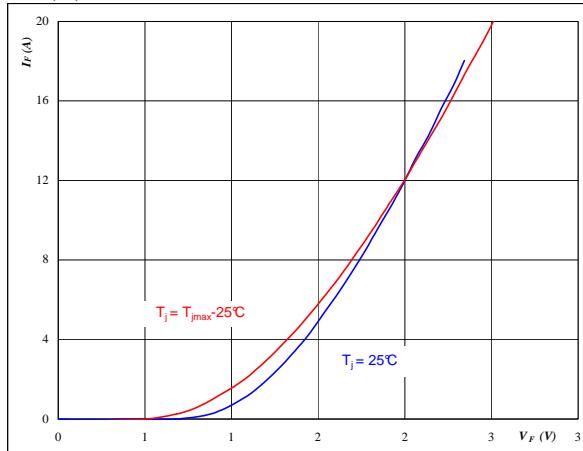
Parameter	Symbol	Conditions					Value			Unit
			V_{GE} [V] or V_{GS} [V]	V_r [V] or V_{CE} [V] or V_{DS} [V]	I_c [A] or I_F [A] or I_D [A]	T_j	Min	Typ	Max	
C.T. Inverse diode										
Diode forward voltage	V_F					$T_j=25^\circ\text{C}$ $T_j=125^\circ\text{C}$			1,66 1,61	2,1
Thermal resistance chip to heatsink per chip	R_{thJH}	Thermal grease thickness≤50μm $\lambda = 1 \text{ W/mK}$							5,12	K/W
PFC Diode										
Forward voltage	V_F				15	$T_j=25^\circ\text{C}$ $T_j=125^\circ\text{C}$			2,03 1,5	2,9
Reverse recovery time	t_{rr}	$R_{goff}=2\Omega$	15	400	18	$T_j=25^\circ\text{C}$ $T_j=125^\circ\text{C}$			12 19	μA
Peak recovery current	I_{RRM}	$R_{goff}=2\Omega$	15	400	18	$T_j=25^\circ\text{C}$ $T_j=125^\circ\text{C}$			41 61	A
Reverse recovery time	t_{rr}					$T_j=25^\circ\text{C}$ $T_j=125^\circ\text{C}$			12 19	ns
Reverse recovery charge	Q_{rr}					$T_j=25^\circ\text{C}$ $T_j=125^\circ\text{C}$			0,237 0,634	μC
Reverse recovered energy	E_{rec}					$T_j=25^\circ\text{C}$ $T_j=125^\circ\text{C}$			0,053 0,133	mWs
Peak rate of fall of recovery current	$d(i_{rec})/\max dt$					$T_j=25^\circ\text{C}$ $T_j=125^\circ\text{C}$			13672 12699	A/μs
Thermal resistance chip to heatsink per chip	R_{thJH}	Thermal grease thickness≤50μm $\lambda = 1 \text{ W/mK}$							2,29	K/W
PFC Shunt(P983D59)										
R1 value	R						7,35	7,5	7,65	mΩ
Temperature coefficient	t_c	20°C to 60°C						< 50		ppm/K
Internal heat resistance	R_{thi}							< 6,5		K/W
Inductance	L							< 3		nH
PFC Shunt(P983D79)										
R1 value	R						14,7	15	15,3	mΩ
Temperature coefficient	t_c	20°C to 60°C						< 50		ppm/K
Internal heat resistance	R_{thi}							< 13		K/W
Inductance	L							< 3		nH
DC link Capacitor										
C value	C						430	540	650	nF
Thermistor										
Rated resistance	R					$T_j=25^\circ\text{C}$		21,5		kΩ
Deviation of R100	$\Delta R/R$	$R_{100}=1486\Omega$				$T_j=100^\circ\text{C}$	-4,5		+4,5	%
Power dissipation	P					$T_j=25^\circ\text{C}$		210		mW
Power dissipation constant						$T_j=25^\circ\text{C}$		3,5		mW/K
B-value	$B_{(25/50)}$					$T_j=25^\circ\text{C}$		3884		K
B-value	$B_{(25/100)}$					$T_j=25^\circ\text{C}$		3964		K

PFC Switch & C.T. Inverse Diode

Figure 1

Typical diode forward current as a function of forward voltage

$$I_F = f(V_F)$$

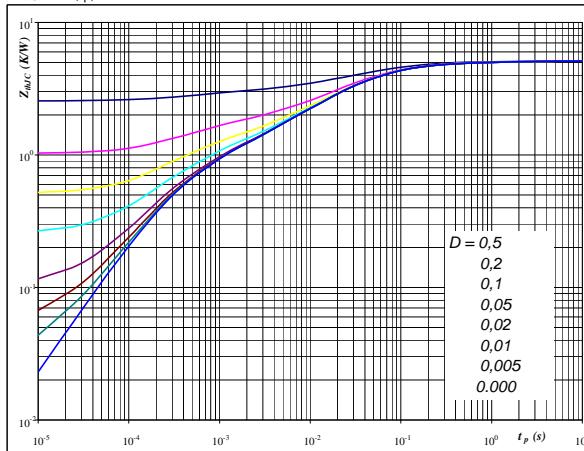


$$t_p = 250 \mu\text{s}$$

Inverse diode
Figure 2

Diode transient thermal impedance as a function of pulse width

$$Z_{thJH} = f(t_p)$$



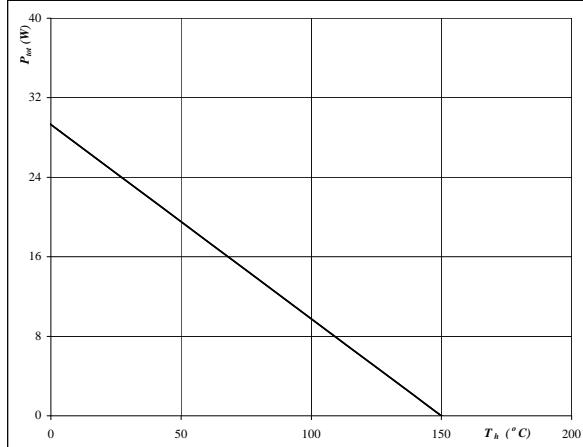
$$D = t_p / T$$

$$R_{thJH} = 5,12 \text{ K/W}$$

Figure 3

Power dissipation as a function of heatsink temperature

$$P_{tot} = f(T_h)$$

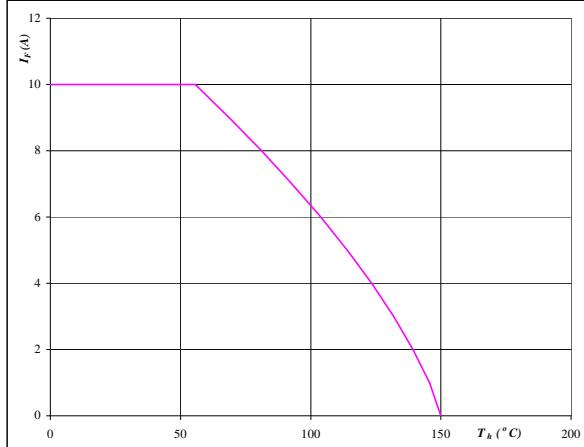


$$T_j = 150^\circ\text{C}$$

Inverse diode
Figure 4

Forward current as a function of heatsink temperature

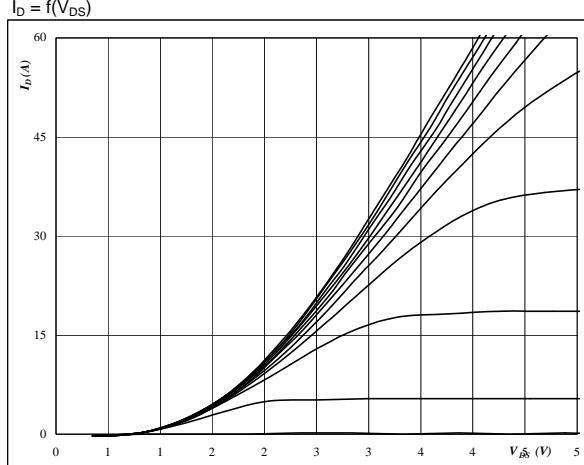
$$I_F = f(T_h)$$



$$T_j = 150^\circ\text{C}$$

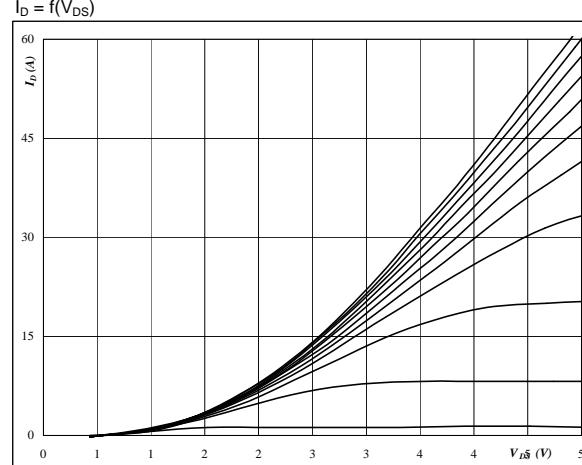
PFC

Figure 1
Typical output characteristics
 $I_D = f(V_{DS})$



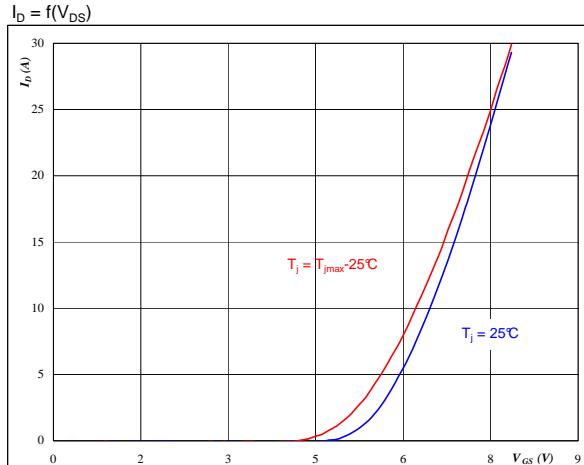
$t_p = 250 \mu s$
 $T_j = 25^\circ C$
 V_{GS} from 5 V to 15 V in steps of 1 V

Figure 2
Typical output characteristics
 $I_D = f(V_{DS})$



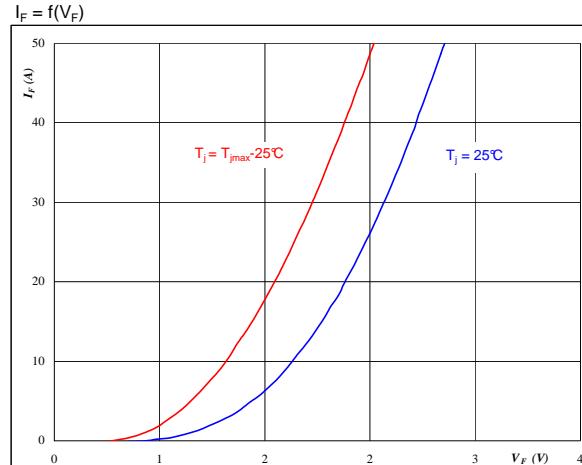
$t_p = 250 \mu s$
 $T_j = 125^\circ C$
 V_{GS} from 5 V to 15 V in steps of 1 V

Figure 3
Typical transfer characteristics
 $I_D = f(V_{DS})$



$t_p = 250 \mu s$
 V_{DS} = 10 V

Figure 4
Typical diode forward current as a function of forward voltage
 $I_F = f(V_F)$



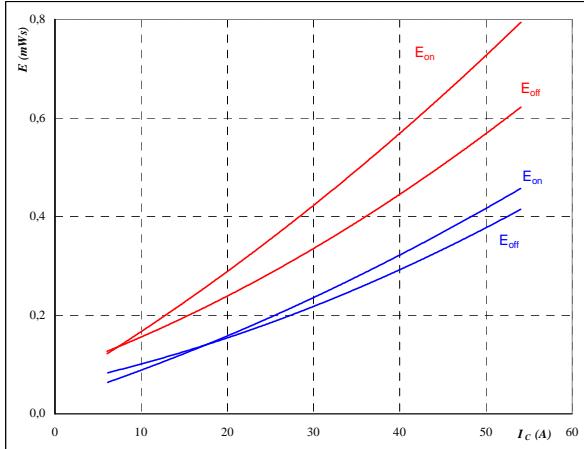
$t_p = 250 \mu s$

PFC

Figure 5 PFC SWITCH

**Typical switching energy losses
as a function of collector current**

$$E = f(I_D)$$



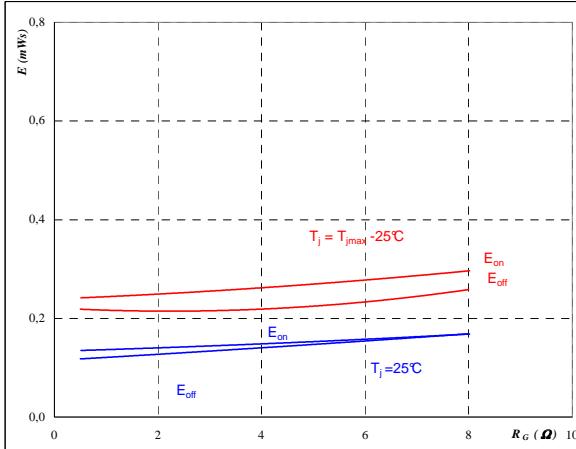
inductive load

T_j = 25/125 °C
 V_{DS} = 400 V
 V_{GS} = 15 V
 R_{gon} = 4 Ω
 R_{goff} = 4 Ω

Figure 6 PFC SWITCH

**Typical switching energy losses
as a function of gate resistor**

$$E = f(R_G)$$



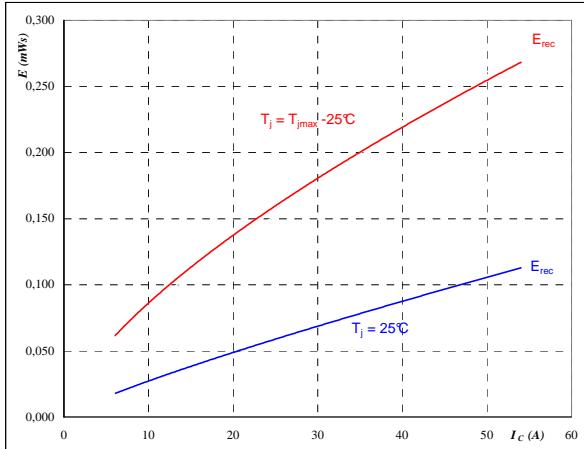
inductive load

T_j = 25/125 °C
 V_{DS} = 400 V
 V_{GS} = 15 V
 I_D = 18 A

Figure 7 PFC SWITCH

**Typical reverse recovery energy loss
as a function of collector (drain) current**

$$E_{rec} = f(I_c)$$



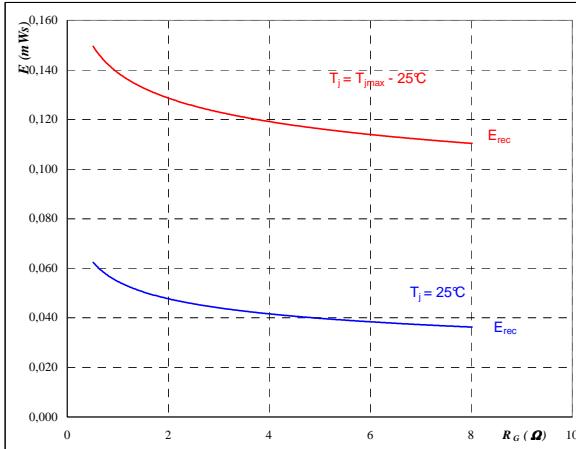
inductive load

T_j = 25/125 °C
 V_{DS} = 400 V
 V_{GS} = 15 V
 R_{gon} = 4 Ω
 R_{goff} = 4 Ω

Figure 8 PFC SWITCH

**Typical reverse recovery energy loss
as a function of gate resistor**

$$E_{rec} = f(R_G)$$



inductive load

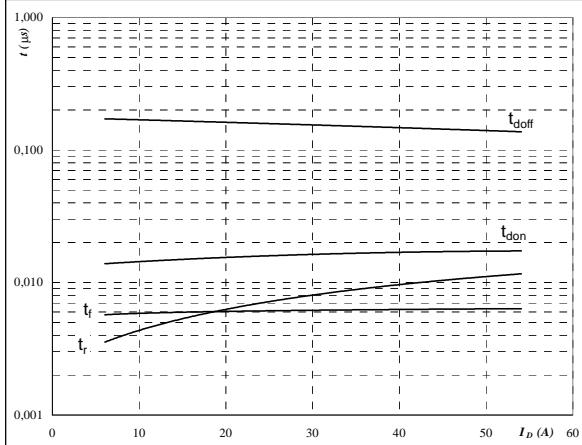
T_j = 25/125 °C
 V_{DS} = 400 V
 V_{GS} = 15 V
 I_D = 18 A

PFC

Figure 9

Typical switching times as a function of collector current

$$t = f(I_C)$$



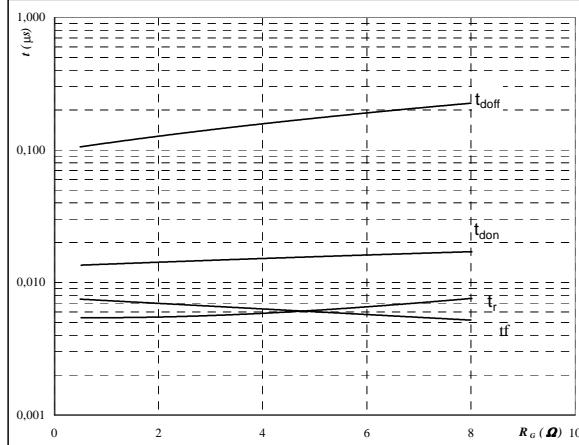
inductive load

$T_j = 125^\circ\text{C}$
 $V_{DS} = 400\text{ V}$
 $V_{GS} = 15\text{ V}$
 $R_{gon} = 4\Omega$
 $R_{goff} = 4\Omega$

PFC SWITCH
Figure 10

Typical switching times as a function of gate resistor

$$t = f(R_G)$$



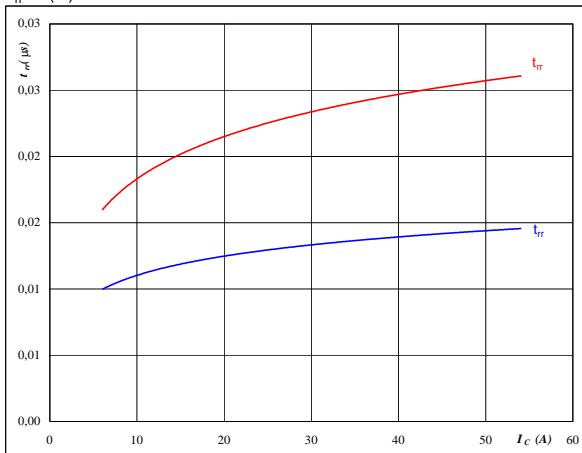
inductive load

$T_j = 125^\circ\text{C}$
 $V_{DS} = 400\text{ V}$
 $V_{GS} = 15\text{ V}$
 $I_C = 18\text{ A}$

Figure 11
PFC FWD

Typical reverse recovery time as a function of collector current

$$t_{rr} = f(I_C)$$

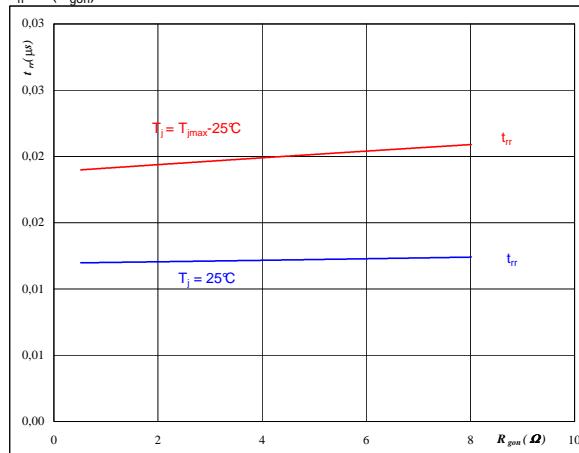


$T_j = 25/125^\circ\text{C}$
 $V_{CE} = 400\text{ V}$
 $V_{GE} = 15\text{ V}$
 $R_{gon} = 4\Omega$

Figure 12
PFC FWD

Typical reverse recovery time as a function of IGBT turn on gate resistor

$$t_{rr} = f(R_{gon})$$



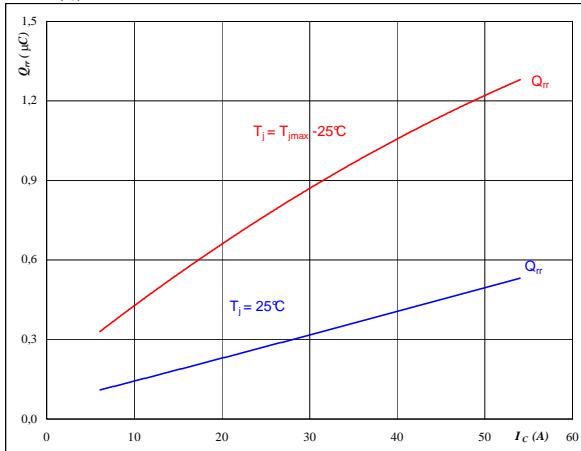
$T_j = 25/125^\circ\text{C}$
 $V_R = 400\text{ V}$
 $I_F = 18\text{ A}$
 $V_{GS} = 15\text{ V}$

PFC

Figure 13

Typical reverse recovery charge as a function of collector current

$$Q_{rr} = f(I_C)$$

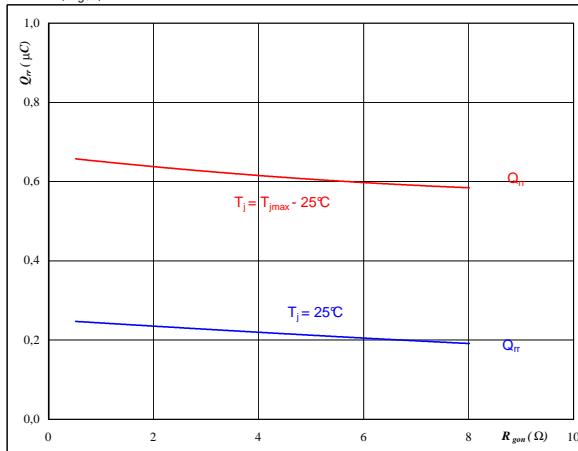


$$\begin{aligned} T_j &= 25/125 \quad \text{°C} \\ V_{CE} &= 400 \quad \text{V} \\ V_{GE} &= 15 \quad \text{V} \\ R_{gon} &= 4 \quad \Omega \end{aligned}$$

PFC FWD**Figure 14**

Typical reverse recovery charge as a function of IGBT turn on gate resistor

$$Q_{rr} = f(R_{gon})$$

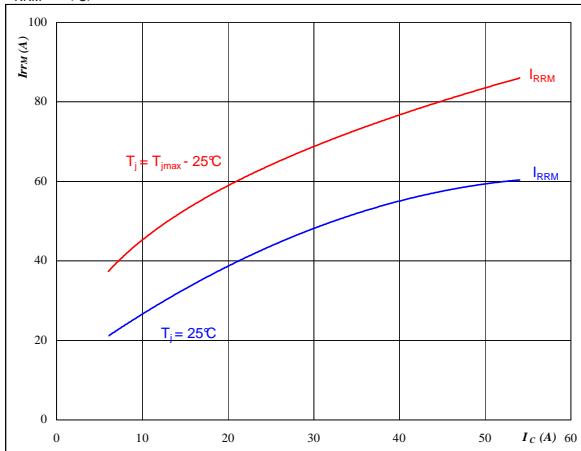


$$\begin{aligned} T_j &= 25/125 \quad \text{°C} \\ V_R &= 400 \quad \text{V} \\ I_F &= 18 \quad \text{A} \\ V_{GS} &= 15 \quad \text{V} \end{aligned}$$

Figure 15

Typical reverse recovery current as a function of collector current

$$I_{RRM} = f(I_C)$$

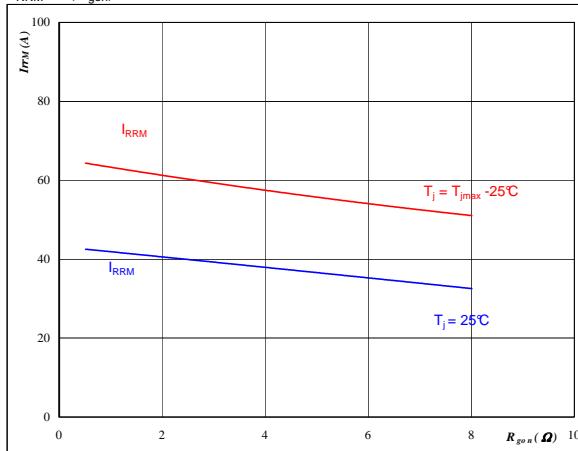


$$\begin{aligned} T_j &= 25/125 \quad \text{°C} \\ V_{CE} &= 400 \quad \text{V} \\ V_{GE} &= 15 \quad \text{V} \\ R_{gon} &= 4 \quad \Omega \end{aligned}$$

PFC FWD**Figure 16**

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

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

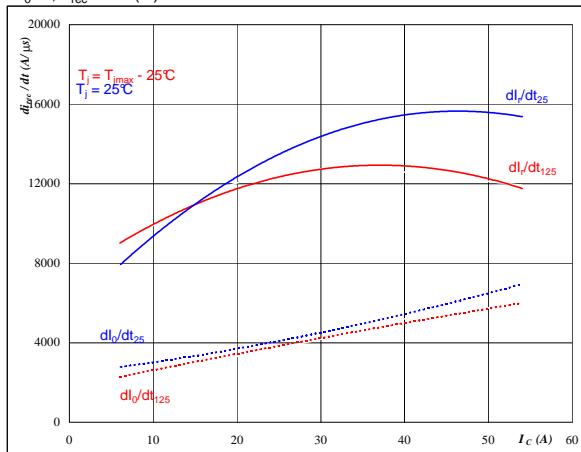


$$\begin{aligned} T_j &= 25/125 \quad \text{°C} \\ V_R &= 400 \quad \text{V} \\ I_F &= 18 \quad \text{A} \\ V_{GS} &= 15 \quad \text{V} \end{aligned}$$

PFC

Figure 17

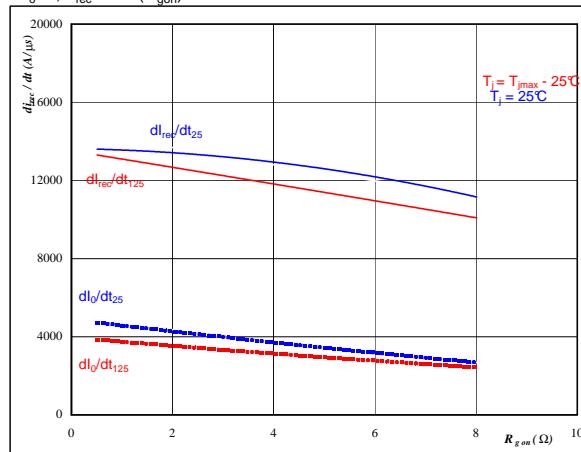
Typical rate of fall of forward
and reverse recovery current as a
function of collector current
 $dl/dt, dl_{rec}/dt = f(I_c)$



$T_j = 25/125 \quad ^\circ\text{C}$
 $V_{CE} = 400 \quad \text{V}$
 $V_{GE} = 15 \quad \text{V}$
 $R_{gon} = 4 \quad \Omega$

PFC FWD
Figure 18

Typical rate of fall of forward
and reverse recovery current as a
function of IGBT turn on gate resistor
 $dl/dt, dl_{rec}/dt = f(R_{gon})$



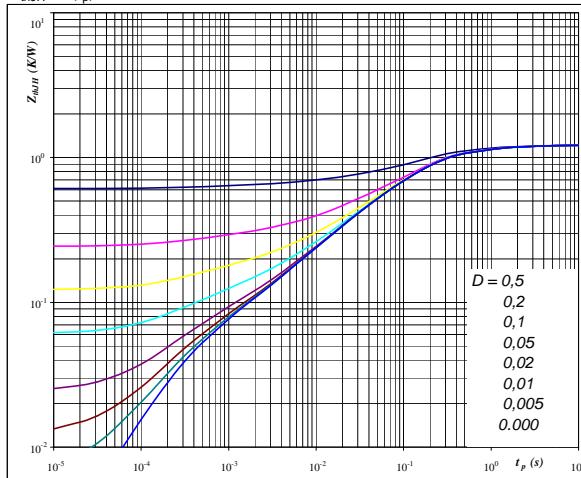
$T_j = 25/125 \quad ^\circ\text{C}$
 $V_R = 400 \quad \text{V}$
 $I_F = 18 \quad \text{A}$
 $V_{GS} = 15 \quad \text{V}$

Figure 19

IGBT/MOSFET transient thermal impedance
as a function of pulse width

PFC SWITCH

$Z_{thJH} = f(t_p)$



$D = t_p / T$
 $R_{thJH} = 1,22 \quad \text{K/W}$

IGBT thermal model values

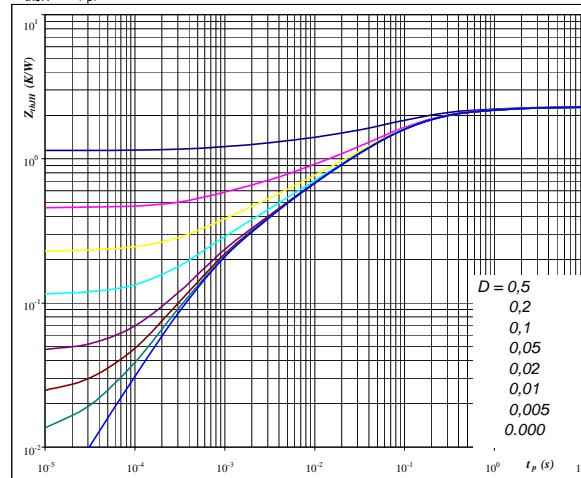
R (C/W)	Tau (s)
0,047	4,30E+00
0,176	7,15E-01
0,676	1,39E-01
0,214	2,03E-02
0,062	2,91E-03
0,046	3,33E-04

Figure 20

FWD transient thermal impedance
as a function of pulse width

PFC FWD

$Z_{thJH} = f(t_p)$



$D = t_p / T$
 $R_{thJH} = 2,29 \quad \text{K/W}$

FWD thermal model values

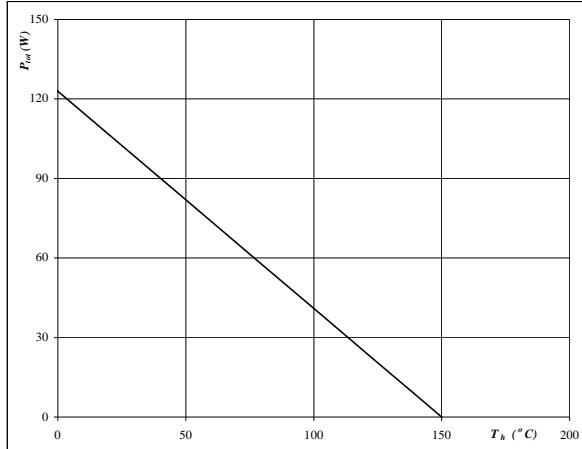
R (C/W)	Tau (s)
0,05	7,26E+00
0,24	8,03E-01
0,85	1,32E-01
0,69	3,21E-02
0,30	4,97E-03
0,17	7,13E-04

PFC

Figure 21

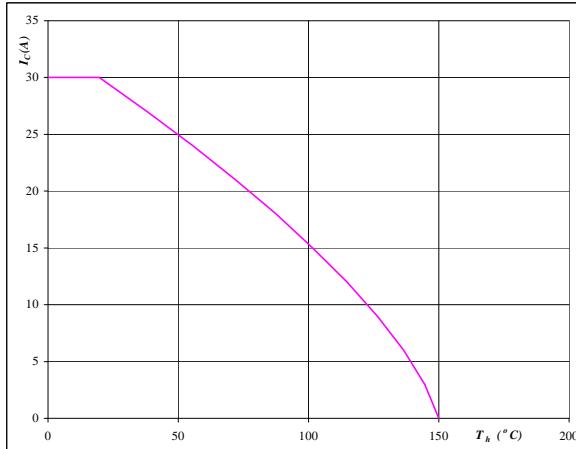
Power dissipation as a function of heatsink temperature

$$P_{\text{tot}} = f(T_h)$$


PFC SWITCH
Figure 22

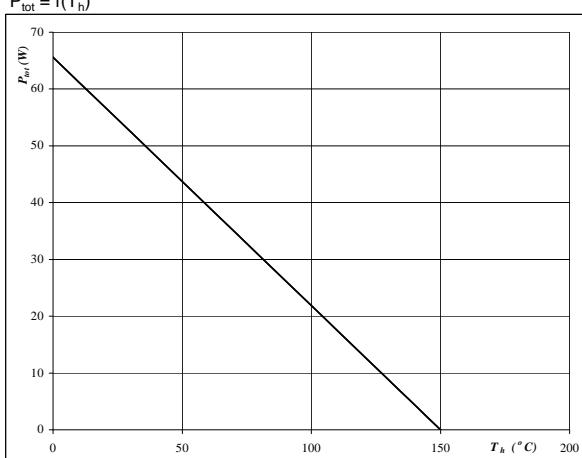
Collector/Drain current as a function of heatsink temperature

$$I_C = f(T_h)$$


PFC SWITCH
Figure 23

Power dissipation as a function of heatsink temperature

$$P_{\text{tot}} = f(T_h)$$


PFC FWD
Figure 24

Forward current as a function of heatsink temperature

$$I_F = f(T_h)$$

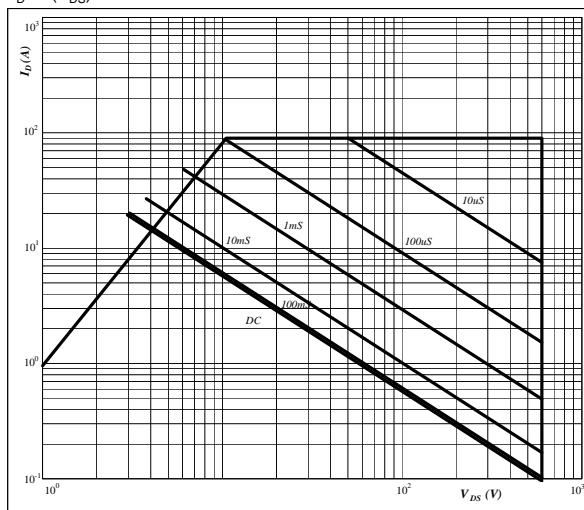

PFC FWD

PFC

Figure 25

**Safe operating area as a function
of drain-source voltage**

$$I_D = f(V_{DS})$$



D = single pulse

T_h = 80 °C

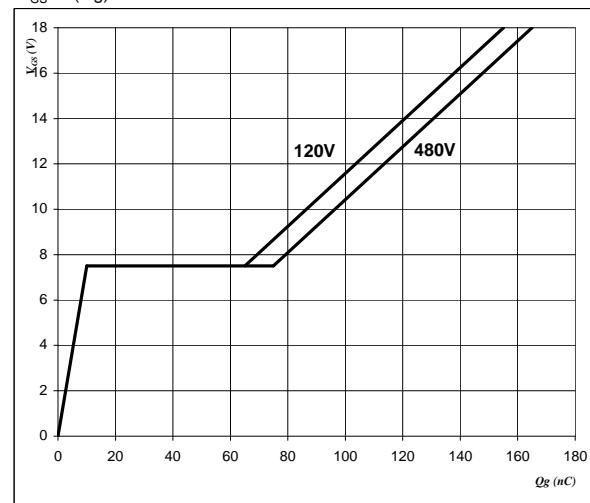
V_{GS} = 15 V

T_j = T_{jmax} °C

PFC SWITCH
Figure 26

Gate voltage vs Gate charge

$$V_{GS} = f(Qg)$$



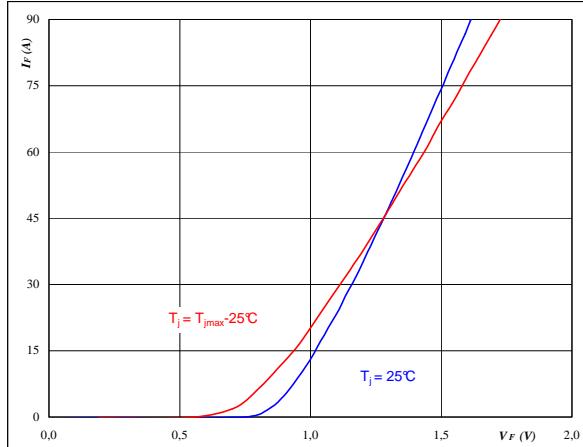
I_D = 30 A

Input Rectifier Bridge

Figure 1

Typical diode forward current as a function of forward voltage

$$I_F = f(V_F)$$

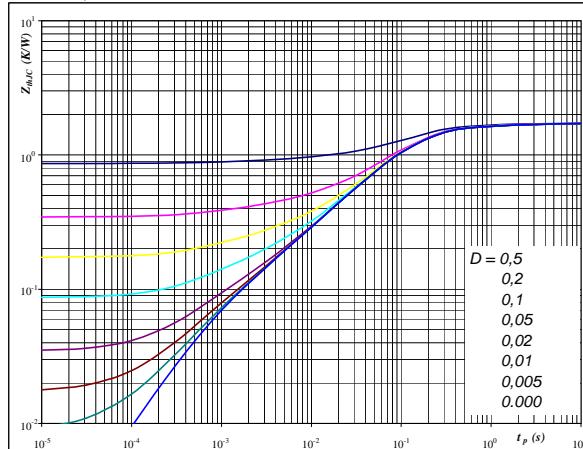


$$t_p = \quad 250 \quad \mu s$$

Rectifier diode
Figure 2

Diode transient thermal impedance as a function of pulse width

$$Z_{thJH} = f(t_p)$$



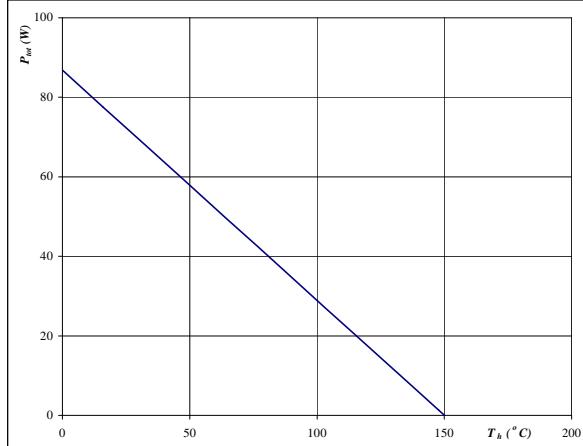
$$D = \frac{t_p}{T}$$

$$R_{thJH} = 1,73 \quad K/W$$

Rectifier diode
Figure 3

Power dissipation as a function of heatsink temperature

$$P_{tot} = f(T_h)$$

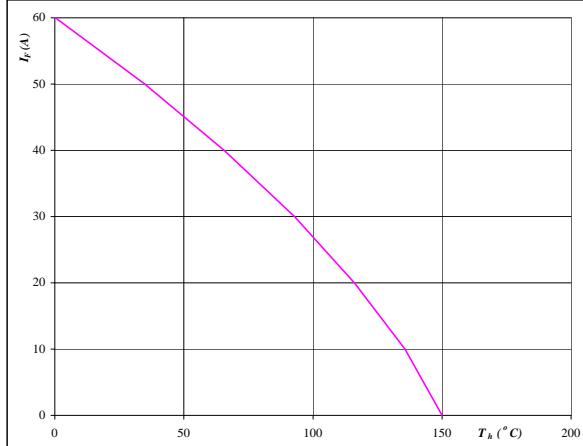


$$T_j = \quad 150 \quad ^\circ C$$

Rectifier diode
Figure 4

Forward current as a function of heatsink temperature

$$I_F = f(T_h)$$



$$T_j = \quad 150 \quad ^\circ C$$

Rectifier diode

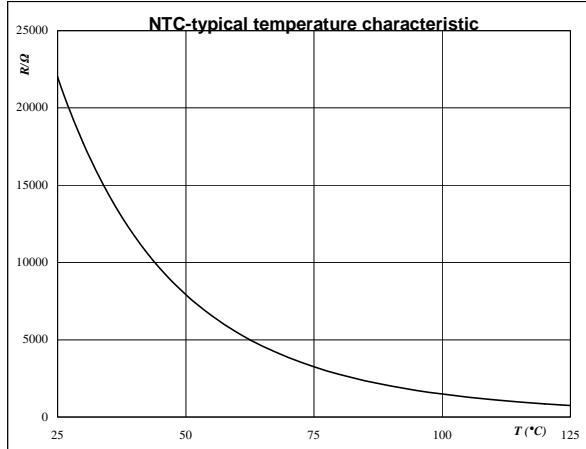
Thermistor

Figure 1

Thermistor

Typical NTC characteristic
as a function of temperature

$$R_T = f(T)$$



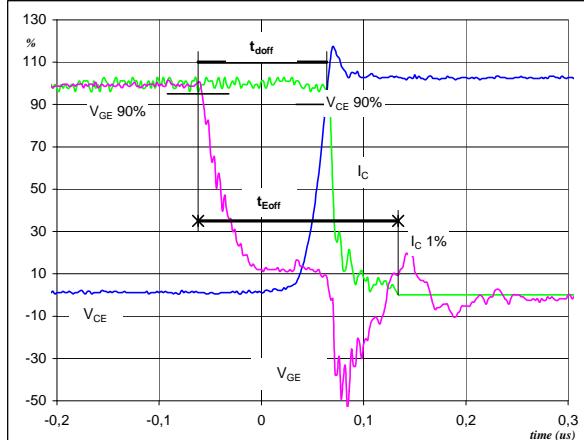
Switching Definitions PFC

General conditions

T_j	=	125 °C
R_{gon}	=	2 Ω
R_{goff}	=	2 Ω

Figure 1**PFC SWITCH**

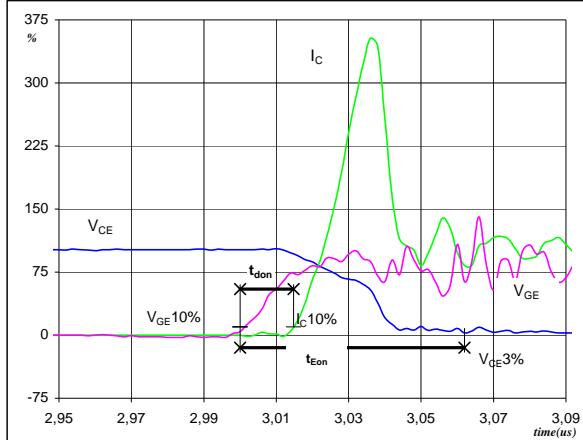
Turn-off Switching Waveforms & definition of t_{doff} , t_{Eoff}
 $(t_{Eoff} = \text{integrating time for } E_{off})$



$V_{GE}(0\%) = 0$ V
 $V_{GE}(100\%) = 15$ V
 $V_C(100\%) = 400$ V
 $I_C(100\%) = 30$ A
 $t_{doff} = 0,12$ μs
 $t_{Eoff} = 0,20$ μs

Figure 2**PFC SWITCH**

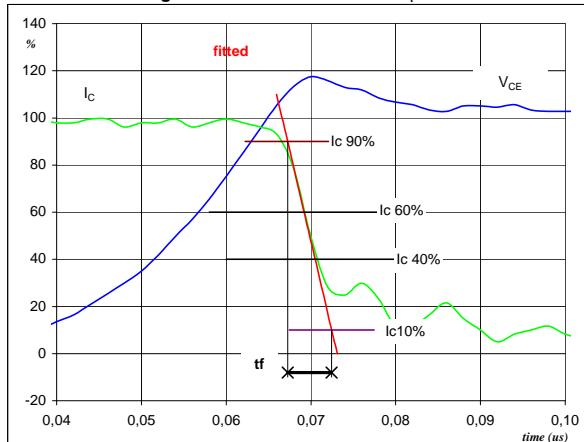
Turn-on Switching Waveforms & definition of t_{don} , t_{Eon}
 $(t_{Eon} = \text{integrating time for } E_{on})$



$V_{GE}(0\%) = 0$ V
 $V_{GE}(100\%) = 15$ V
 $V_C(100\%) = 400$ V
 $I_C(100\%) = 30$ A
 $t_{don} = 0,02$ μs
 $t_{Eon} = 0,06$ μs

Figure 3**PFC SWITCH**

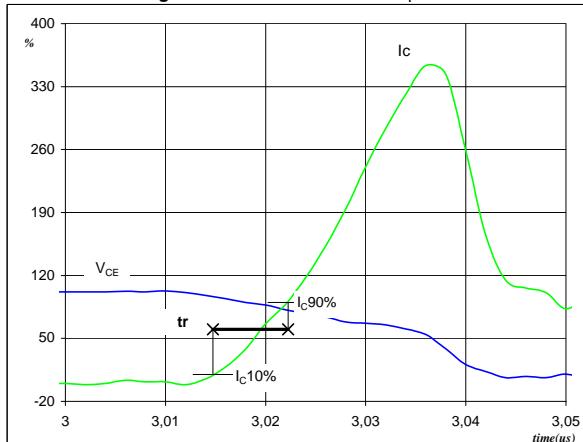
Turn-off Switching Waveforms & definition of t_f



$V_C(100\%) = 400$ V
 $I_C(100\%) = 30$ A
 $t_f = 0,007$ μs

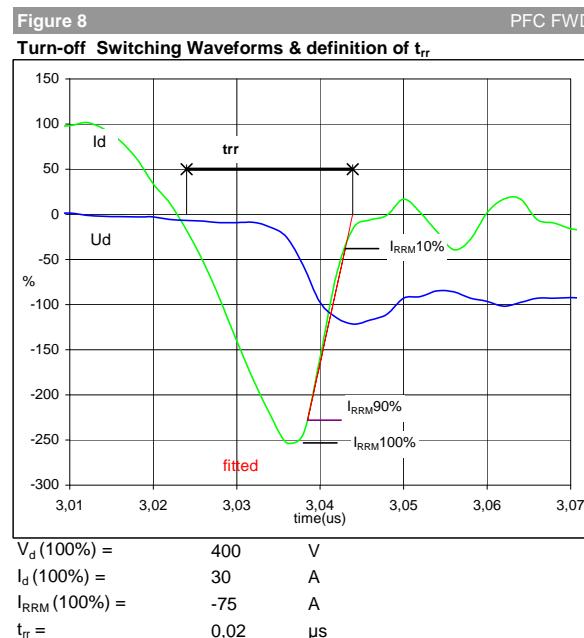
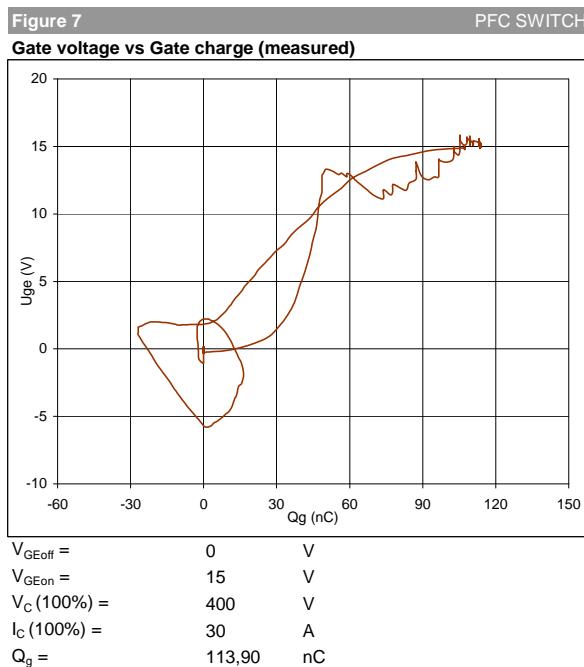
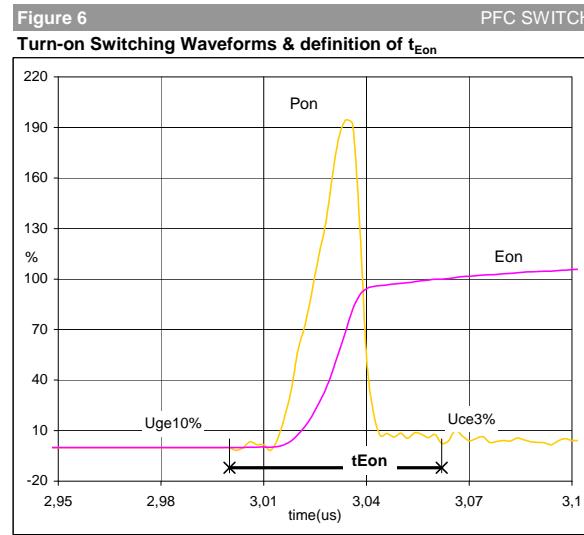
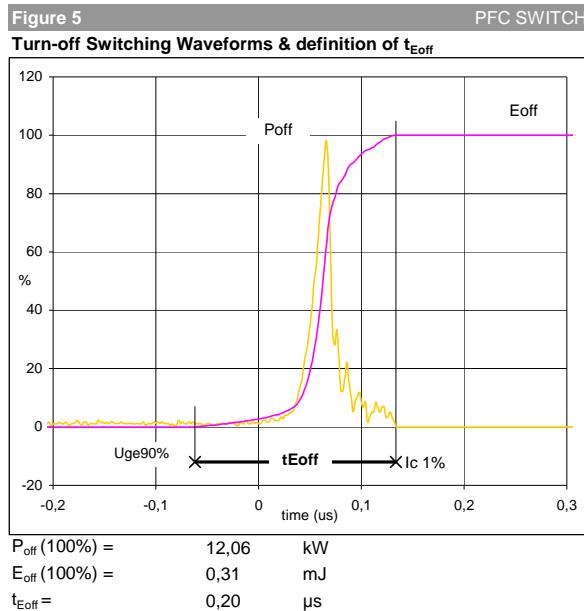
Figure 4**PFC SWITCH**

Turn-on Switching Waveforms & definition of t_r



$V_C(100\%) = 400$ V
 $I_C(100\%) = 30$ A
 $t_r = 0,007$ μs

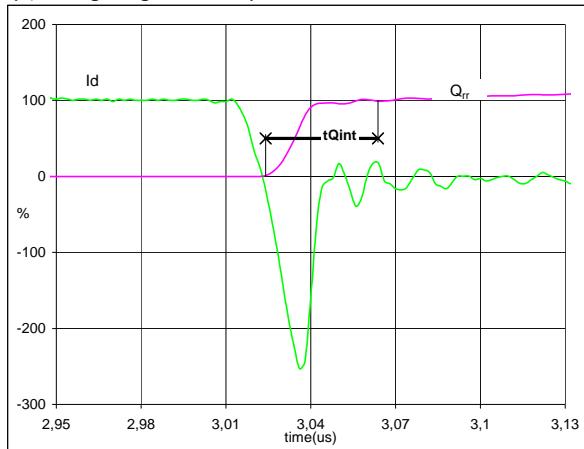
Switching Definitions PFC



Switching Definitions PFC

Figure 9

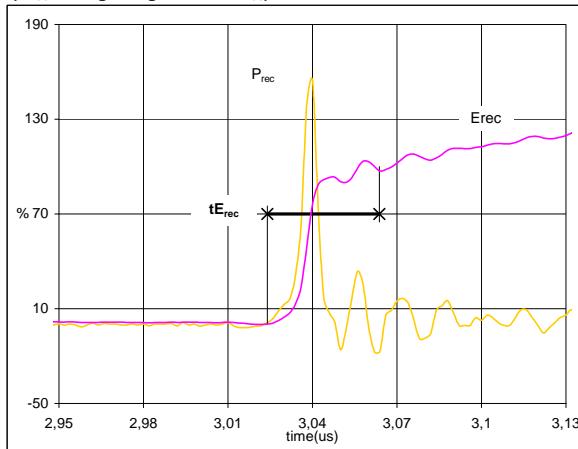
PFC FWD
Turn-on Switching Waveforms & definition of t_{Qrr}
 $(t_{Qrr} = \text{integrating time for } Q_{rr})$



$I_d(100\%) = 30 \text{ A}$
 $Q_{rr}(100\%) = 0,89 \mu\text{C}$
 $t_{Qint} = 0,04 \mu\text{s}$

Figure 10

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



$P_{rec}(100\%) = 12,06 \text{ kW}$
 $E_{rec}(100\%) = 0,19 \text{ mJ}$
 $t_{Erec} = 0,04 \mu\text{s}$

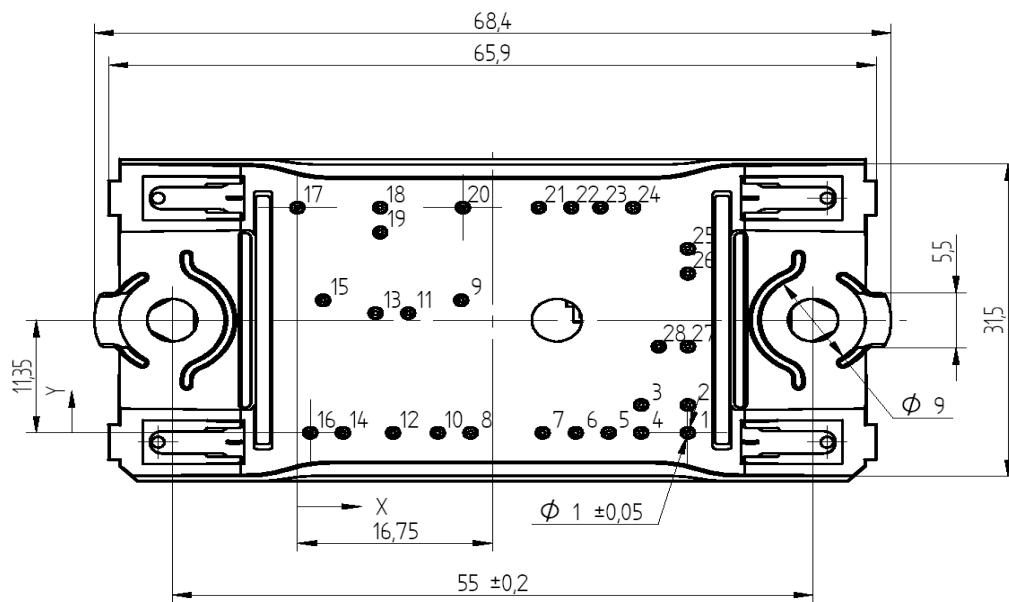
Ordering Code and Marking - Outline - Pinout

Ordering Code & Marking

Version	Ordering Code	in DataMatrix as	in packaging barcode as
without SCR, current sense in collector	10-FZ062TA030FB05-P983D59	P983D59	10-FZ062TA030FB05-P983D59
without SCR, current sense in collector	10-F0062TA030FB06-P983D79	P983D79	10-F0062TA030FB06-P983D79

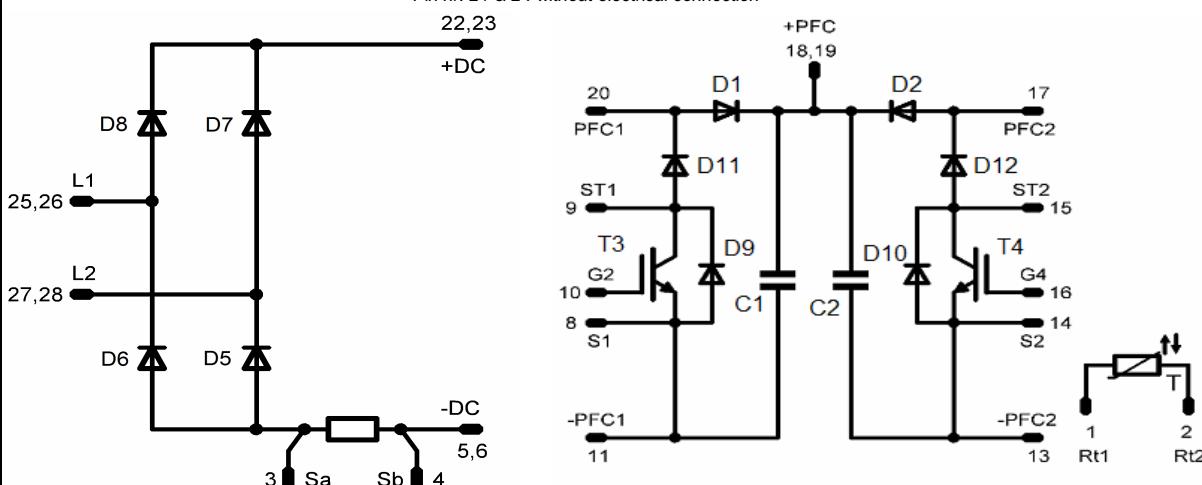
Outline

Pin table		
Pin	X	Y
1	33,5	0
2	33,5	2,8
3	29,5	2,8
4	29,5	0
5	26,7	0
6	23,9	0
7	21,05	0
8	14,85	0
9	14,05	13,35
10	12,05	0
11	9,5	12,05
12	8,2	0
13	6,7	12,05
14	3,9	0
15	2,2	13,35
16	1,1	0
17	0	22,7
18	7,1	22,7
19	7,1	20,2
20	14,2	22,7
21	20,7	22,7
22	23,5	22,7
23	26	22,7
24	28,8	22,7
25	33,5	18,55
26	33,5	16,05
27	33,5	8,7
28	31	8,7



Pinout

Pin nr. 21 & 24 without electrical connection



Pin nr. 7 & 12 without electrical connection

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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.