


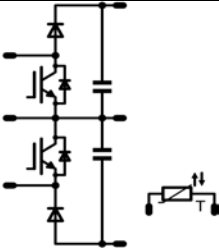
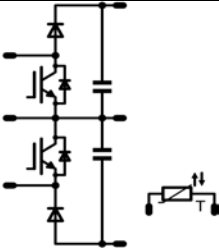
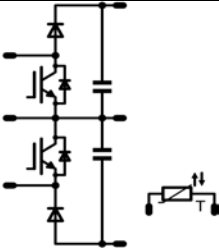


flowBOOST 4w	600V/400A				
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Maximum Ratings

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

Parameter	Symbol	Condition	Value	Unit
Input Boost IGBT				
Collector-emitter break down voltage	V_{CES}		600	V
DC collector current	I_C	$T_j=T_{jmax}$ $T_h=80^{\circ}\text{C}$ $T_c=80^{\circ}\text{C}$	391 500	A
Pulsed collector current	I_{Cpulse}	t_p limited by T_{jmax}	1200	A
Turn off safe operating area		$T_j \leq 150^{\circ}\text{C}$ $V_{CE} \leq V_{CES}$	1200	A
Power dissipation per IGBT	P_{tot}	$T_j=T_{jmax}$ $T_h=80^{\circ}\text{C}$ $T_c=80^{\circ}\text{C}$	639 968	W
Gate-emitter peak voltage	V_{GE}		± 20	V
Short circuit ratings	t_{SC} V_{CC}	$T_j \leq 150^{\circ}\text{C}$ $V_{GE} = 15\text{V}$	6 360	μs V
Maximum Junction Temperature	T_{jmax}		175	$^{\circ}\text{C}$

Input Boost Inverse Diode

Peak Repetitive Reverse Voltage	V_{RRM}		600	V
Forward average current	I_{FAV}	$T_j=T_{jmax}$ $T_h=80^{\circ}\text{C}$ $T_c=80^{\circ}\text{C}$	40 81	A
I2t-value	I^2t	$t_p=10\text{ms}$ $T_j=25^{\circ}\text{C}$	45	A^2s
Repetitive peak forward current	I_{FRM}	t_p limited by T_{jmax}	40	A
Power dissipation per Diode	P_{tot}	$T_j=T_{jmax}$ $T_h=80^{\circ}\text{C}$ $T_c=80^{\circ}\text{C}$	113 160	W
Maximum Junction Temperature	T_{jmax}		175	$^{\circ}\text{C}$

Maximum Ratings

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

Parameter	Symbol	Condition	Value	Unit
Input Boost FWD				
Peak Repetitive Reverse Voltage	V_{RRM}		600	V
Forward average current	I_{FAV}	$T_j=T_{jmax}$ $T_h=80^\circ\text{C}$ $T_c=80^\circ\text{C}$	296 393	A
Surge forward current	I_{FSM}	$t_p=10\text{ms}$ $T_j=25^\circ\text{C}$	tbd.	A
I ² t-value	I^2t		tbd.	A ² s
Repetitive peak forward current	I_{FRM}	t_p limited by T_{jmax}	1200	A
Power dissipation per Diode	P_{tot}	$T_j=T_{jmax}$ $T_h=80^\circ\text{C}$ $T_c=80^\circ\text{C}$	419 634	W
Maximum Junction Temperature	T_{jmax}		175	$^\circ\text{C}$

Thermal Properties

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

Insulation Properties

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

Characteristic Values

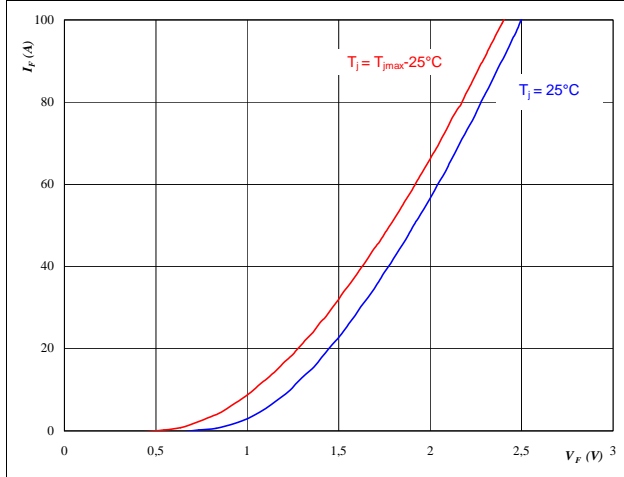
Parameter	Symbol	Conditions					Value			Unit
		$V_{GE} [V]$ or $V_{GS} [V]$	$V_r [V]$ or $V_{CE} [V]$ or $V_{DS} [V]$	$I_C [A]$ or $I_F [A]$ or $I_b [A]$	T_j	Min	Typ	Max		
Input Boost IGBT										
Gate emitter threshold voltage	$V_{GE(th)}$				0,0064	$T_j=25^\circ C$ $T_j=150^\circ C$	5	5,8	6,5	V
Collector-emitter saturation voltage	$V_{CE(sat)}$		15		400	$T_j=25^\circ C$ $T_j=150^\circ C$	1	1,46 1,59	2,1	V
Collector-emitter cut-off	I_{CES}		0	600		$T_j=25^\circ C$ $T_j=150^\circ C$			0,0204	mA
Gate-emitter leakage current	I_{GES}		20	0		$T_j=25^\circ C$ $T_j=150^\circ C$			2400	nA
Integrated Gate resistor	R_{gint}							0,5		Ω
Turn-on delay time	$t_{d(on)}$	Rgoff=8 Ω Rgon=8 Ω	$\pm 15/8$	400	414	$T_j=25^\circ C$		155		ns
Rise time	t_r					$T_j=150^\circ C$		157		
Turn-off delay time	$t_{d(off)}$					$T_j=25^\circ C$		35		
Fall time	t_f					$T_j=150^\circ C$		38		
Turn-on energy loss per pulse	E_{on}					$T_j=25^\circ C$		367		
Turn-off energy loss per pulse	E_{off}					$T_j=150^\circ C$		389		
Input capacitance	C_{ies}					$T_j=25^\circ C$		23		
Output capacitance	C_{oss}	f=1MHz	0	25	$T_j=25^\circ C$		24640		pF	
Reverse transfer capacitance	C_{rss}						732			
Gate charge	Q_{Gate}		± 15	480	400	$T_j=25^\circ C$		2480		nC
Thermal resistance chip to heatsink per chip	R_{thJH}	Phase-Change Material						0,15		KW
Thermal resistance chip to case per chip	R_{thJC}							0,10		
Input Boost Inverse Diode										
Diode forward voltage	V_F				20	$T_j=25^\circ C$ $T_j=125^\circ C$	1	1,45 1,28	2,1	V
Thermal resistance chip to heatsink per chip	R_{thJH}	Phase-Change Material						0,84		KW
Thermal resistance chip to case per chip	R_{thJC}							0,56		
Input Boost FWD										
Forward voltage	V_F				400	$T_j=25^\circ C$ $T_j=150^\circ C$		1,57 1,58		V
Reverse leakage current	I_{rm}			600		$T_j=25^\circ C$ $T_j=150^\circ C$			108	μA
Peak recovery current	I_{RRM}	Rgon=8 Ω	$\pm 15/8$	400	414	$T_j=25^\circ C$		314		A
Reverse recovery time	t_{rr}					$T_j=150^\circ C$		398		
Reverse recovery charge	Q_{rr}					$T_j=25^\circ C$		153		
Reverse recovered energy	E_{rec}					$T_j=150^\circ C$		200		
Peak rate of fall of recovery current	$di(rec)max/dt$					$T_j=25^\circ C$		16,44		
Thermal resistance chip to heatsink per chip	R_{thJH}					$T_j=150^\circ C$		30,70		
Thermal resistance chip to case per chip	R_{thJC}							5,49 10,48		
Thermal resistance chip to heatsink per chip	R_{thJH}	Phase-Change Material						9573 6028		A/ μs
Thermal resistance chip to case per chip	R_{thJC}							0,23		
Thermistor										
Rated resistance	R					$T=25^\circ C$		22000		Ω
Deviation of R100	$\Delta R/R$	R100=1486 Ω				$T=25^\circ C$	-12		+14	%
Power dissipation	P					$T=25^\circ C$		200		mW
Power dissipation constant						$T=25^\circ C$		2		mW/K
B-value	B(25/50)	Tol. $\pm 3\%$				$T=25^\circ C$		3950		K
B-value	B(25/100)	Tol. $\pm 3\%$				$T=25^\circ C$		3996		K
Vincotech NTC Reference									B	

Boost Inverse Diode

Figure 25 Boost Inverse Diode

Typical diode forward current as a function of forward voltage

$$I_F = f(V_F)$$

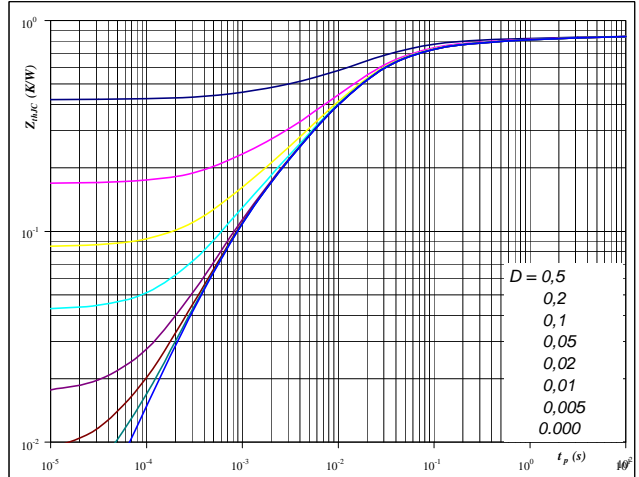


At
 $t_p = 250 \mu s$

Figure 26 Boost Inverse Diode

Diode transient thermal impedance as a function of pulse width

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

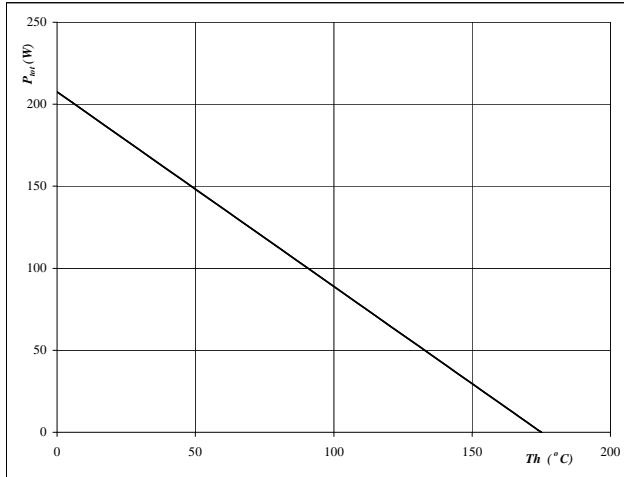


At
 $D = t_p / T$
 $R_{thJH} = 0,84 \text{ K/W}$

Figure 27 Boost Inverse Diode

Power dissipation as a function of heatsink temperature

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

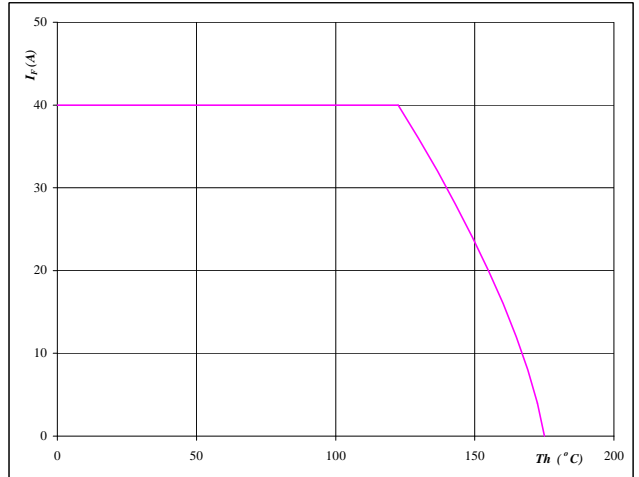


At
 $T_j = 175 \text{ }^\circ\text{C}$

Figure 28 Boost Inverse Diode

Forward current as a function of heatsink temperature

$$I_F = f(T_h)$$

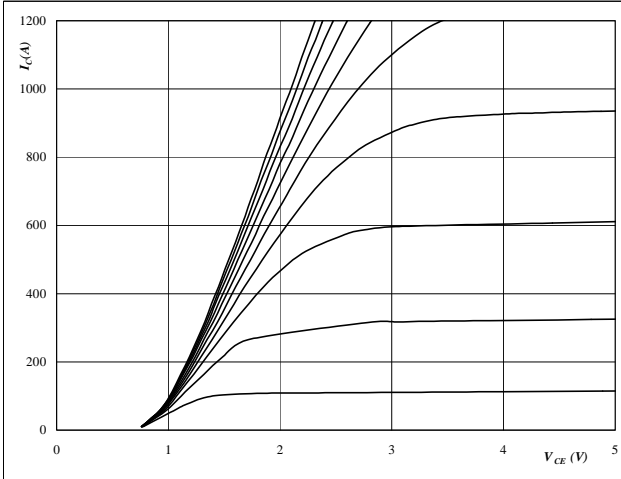


At
 $T_j = 175 \text{ }^\circ\text{C}$

INPUT BOOST

Figure 1 BOOST IGBT
Typical output characteristics

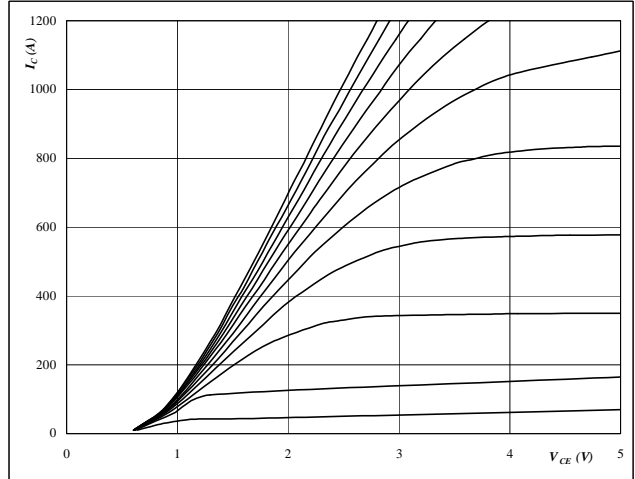
$$I_D = f(V_{DS})$$



At
 $t_p = 350 \mu s$
 $T_j = 25 \text{ } ^\circ C$
 V_{GS} from 7 V to 17 V in steps of 1 V

Figure 2 BOOST IGBT
Typical output characteristics

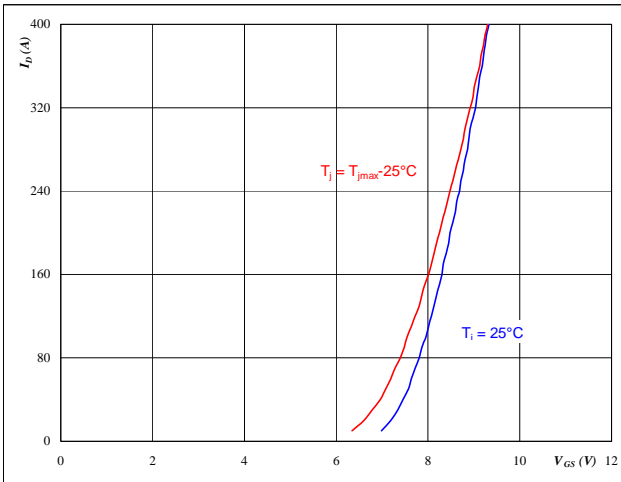
$$I_D = f(V_{DS})$$



At
 $t_p = 350 \mu s$
 $T_j = 125 \text{ } ^\circ C$
 V_{GS} from 7 V to 17 V in steps of 1 V

Figure 3 BOOST IGBT
Typical transfer characteristics

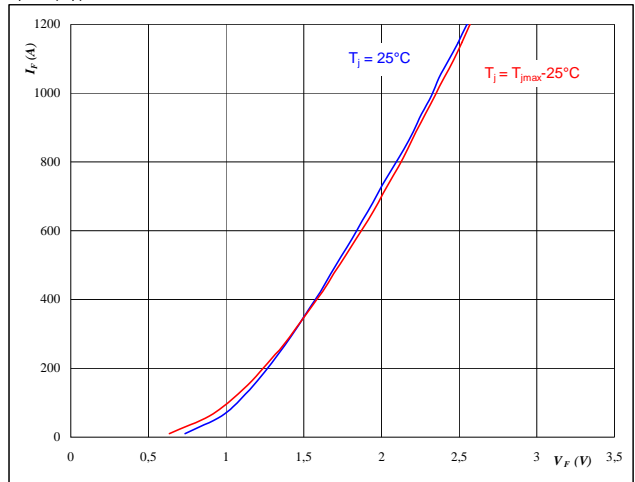
$$I_D = f(V_{GS})$$



At
 $t_p = 350 \mu s$
 $V_{DS} = 10 V$

Figure 4 BOOST FWD
Typical diode forward current as a function of forward voltage

$$I_F = f(V_F)$$



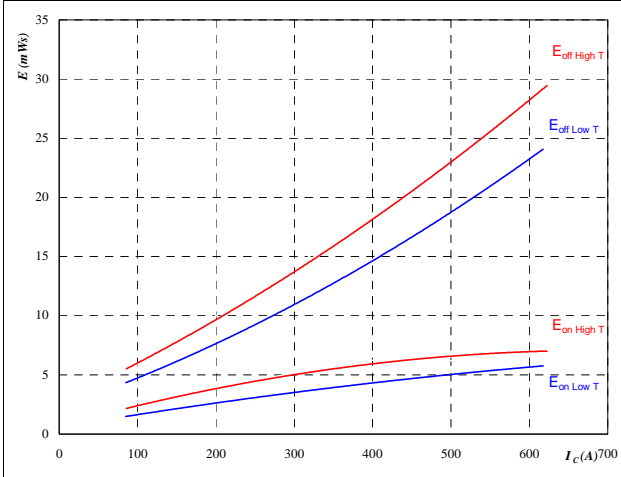
At
 $t_p = 350 \mu s$

INPUT BOOST

Figure 5 BOOST IGBT

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

$$E = f(I_D)$$



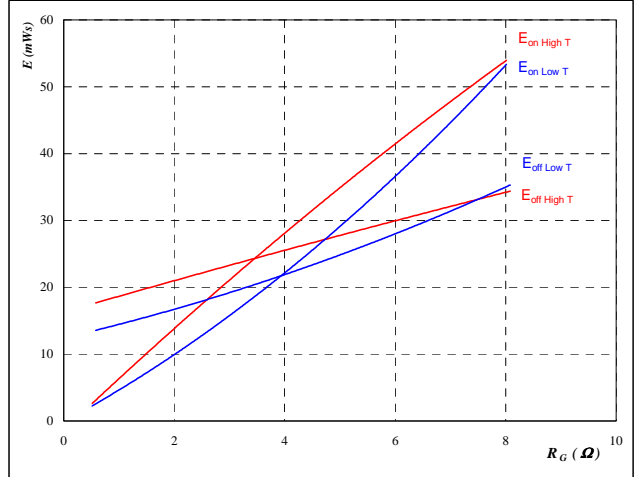
With an inductive load at

$T_j =$	25/125	°C
$V_{DS} =$	400	V
$V_{GS} =$	+15/-8	V
$R_{gon} =$	1	Ω
$R_{goff} =$	1	Ω

Figure 6 BOOST IGBT

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

$$E = f(R_G)$$



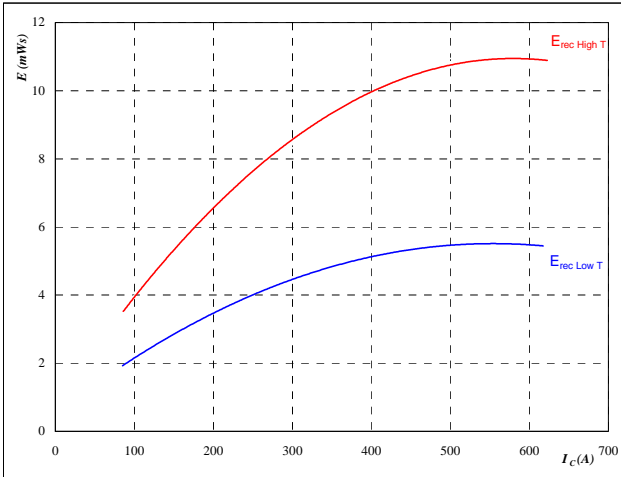
With an inductive load at

$T_j =$	25/125	°C
$V_{DS} =$	400	V
$V_{GS} =$	+15/-8	V
$I_D =$	414	A

Figure 7 BOOST FWD

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

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



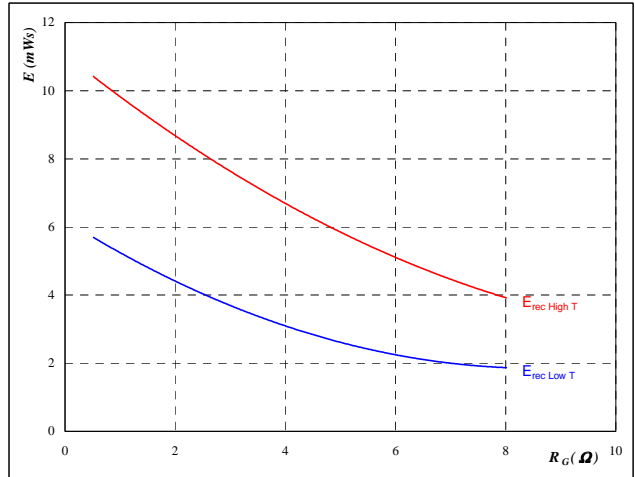
With an inductive load at

$T_j =$	25/125	°C
$V_{DS} =$	400	V
$V_{GS} =$	+15/-8	V
$R_{gon} =$	1	Ω
$R_{goff} =$	1	Ω

Figure 8 BOOST FWD

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

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



With an inductive load at

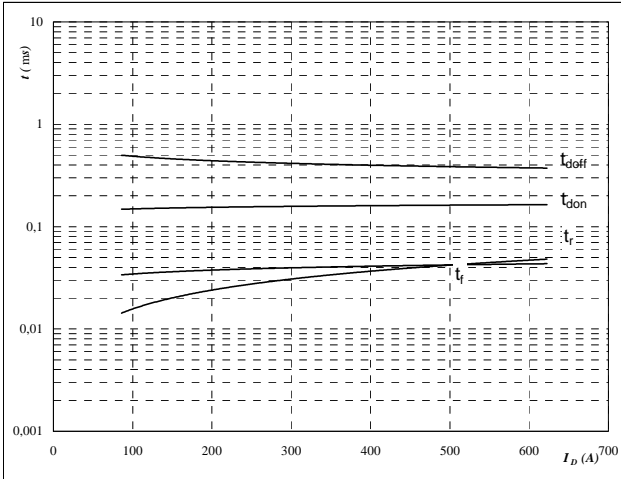
$T_j =$	25/125	°C
$V_{DS} =$	400	V
$V_{GS} =$	+15/-8	V
$I_D =$	414	A

INPUT BOOST

Figure 9 BOOST IGBT

Typical switching times as a function of collector current

$$t = f(I_C)$$



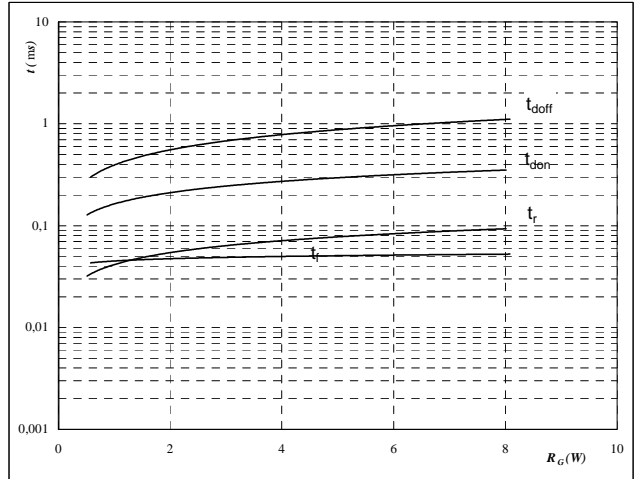
With an inductive load at

$T_j =$	125	°C
$V_{DS} =$	400	V
$V_{GS} =$	+15/-8	V
$R_{gon} =$	1	Ω
$R_{goff} =$	1	Ω

Figure 10 BOOST IGBT

Typical switching times as a function of gate resistor

$$t = f(R_G)$$



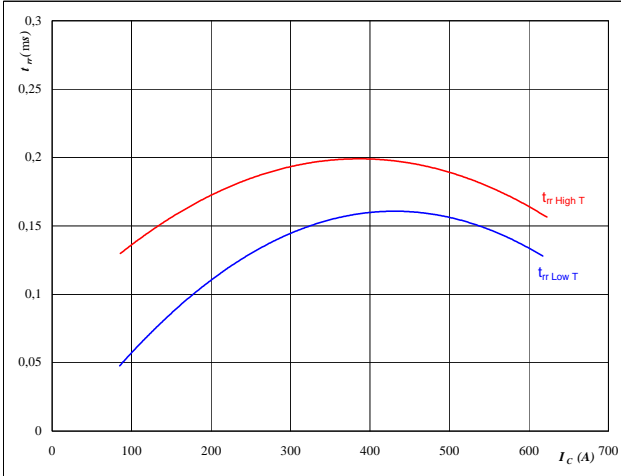
With an inductive load at

$T_j =$	125	°C
$V_{DS} =$	400	V
$V_{GS} =$	+15/-8	V
$I_C =$	414	A

Figure 11 BOOST FWD

Typical reverse recovery time as a function of collector current

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

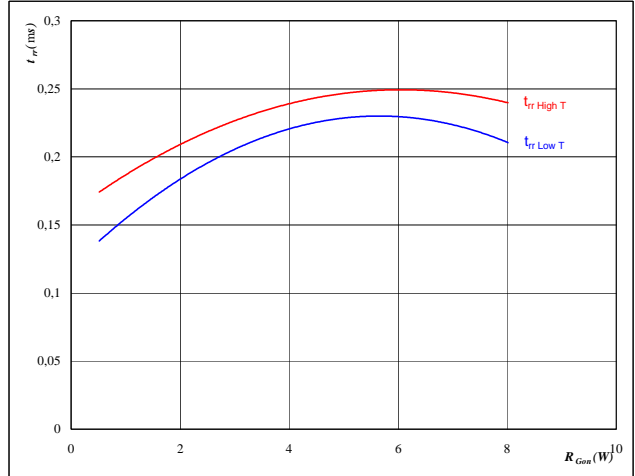

At

$T_j =$	25/125	°C
$V_{CE} =$	400	V
$V_{GE} =$	+15/-8	V
$R_{gon} =$	1	Ω

Figure 12 BOOST FWD

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

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

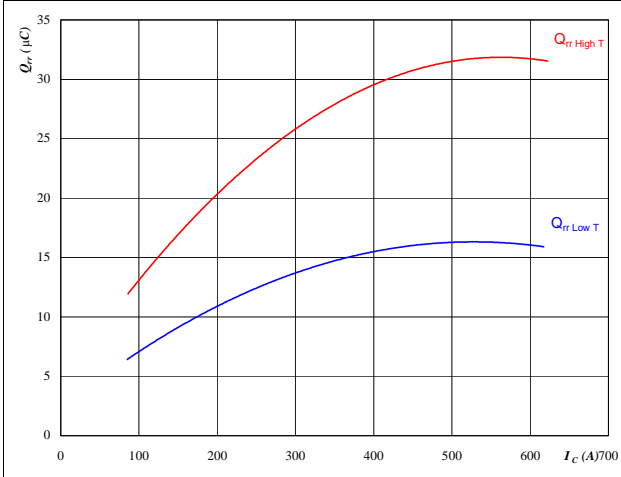

At

$T_j =$	25/125	°C
$V_R =$	400	V
$I_F =$	414	A
$V_{GS} =$	+15/-8	V

INPUT BOOST

Figure 13 BOOST FWD
Typical reverse recovery charge as a function of collector current

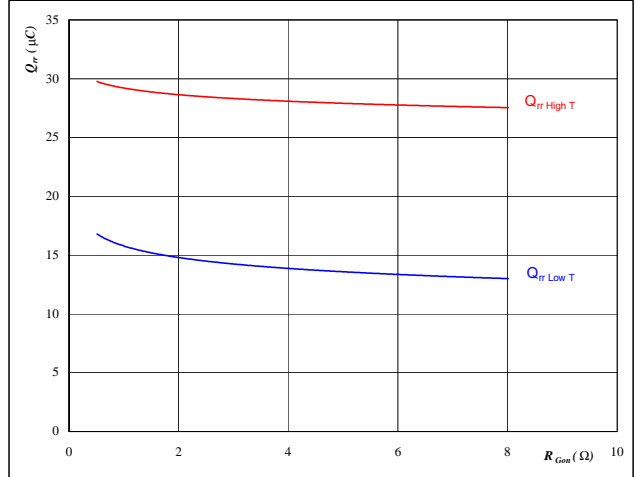
$$Q_{rr} = f(I_C)$$



At
 $T_j = 25/125$ °C
 $V_{CE} = 400$ V
 $V_{GE} = +15/-8$ V
 $R_{gon} = 1$ Ω

Figure 14 BOOST FWD
Typical reverse recovery charge as a function of IGBT turn on gate resistor

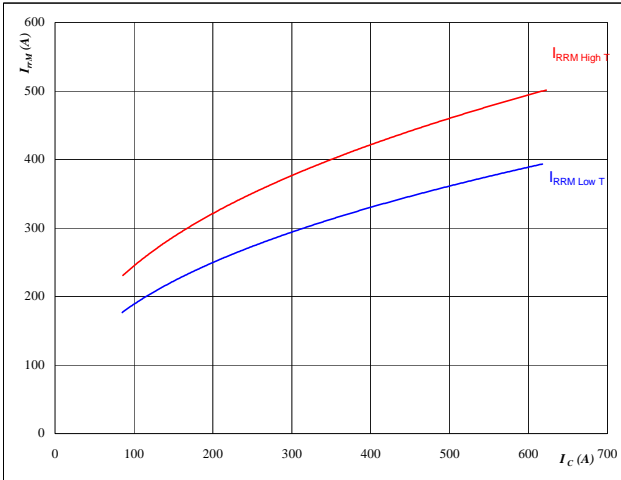
$$Q_{rr} = f(R_{gon})$$



At
 $T_j = 25/125$ °C
 $V_R = 400$ V
 $I_F = 414$ A
 $V_{GS} = +15/-8$ V

Figure 15 BOOST FWD
Typical reverse recovery current as a function of collector current

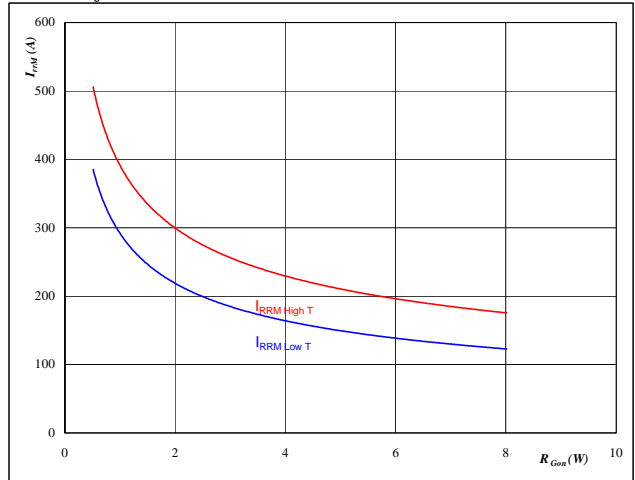
$$I_{RRM} = f(I_C)$$



At
 $T_j = 25/125$ °C
 $V_{CE} = 400$ V
 $V_{GE} = +15/-8$ V
 $R_{gon} = 1$ Ω

Figure 16 BOOST FWD
Typical reverse recovery current as a function of IGBT turn on gate resistor

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



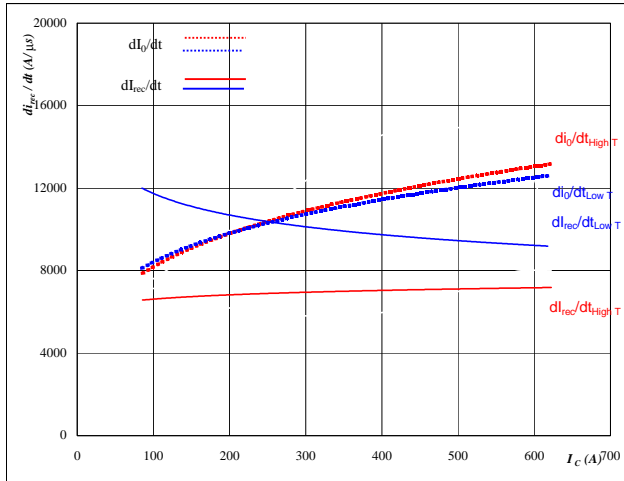
At
 $T_j = 25/125$ °C
 $V_R = 400$ V
 $I_F = 414$ A
 $V_{GS} = +15/-8$ V

INPUT BOOST

Figure 17 BOOST FWD

Typical rate of fall of forward and reverse recovery current as a function of collector current

$$dI_f/dt, dI_{rec}/dt = f(I_c)$$

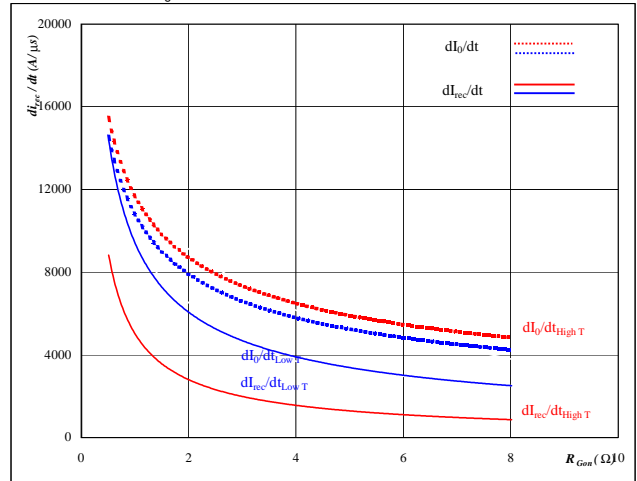


At
 $T_j = 25/125 \text{ } ^\circ\text{C}$
 $V_{CE} = 400 \text{ V}$
 $V_{GE} = +15/-8 \text{ V}$
 $R_{gon} = 1 \text{ } \Omega$

Figure 18 BOOST FWD

Typical rate of fall of forward and reverse recovery current as a function of IGBT turn on gate resistor

$$dI_f/dt, dI_{rec}/dt = f(R_{gon})$$

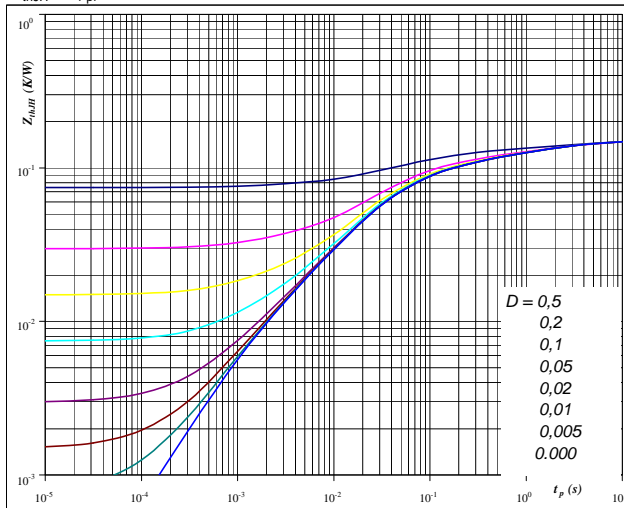


At
 $T_j = 25/125 \text{ } ^\circ\text{C}$
 $V_R = 400 \text{ V}$
 $I_F = 414 \text{ A}$
 $V_{GS} = +15/-8 \text{ V}$

Figure 19 BOOST IGBT

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

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



At
 $D = t_p / T$
 $R_{thJH} = 0,15 \text{ K/W}$

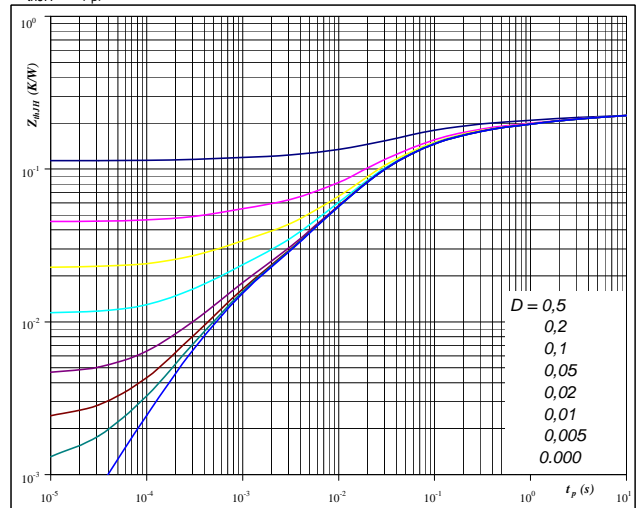
IGBT thermal model values

R (C/W)	Tau (s)
2,71E-02	2,96E+00
2,75E-02	4,85E-01
5,51E-02	6,48E-02
3,39E-02	1,60E-02
5,10E-03	1,36E-03
0,00E+00	0,00E+00

Figure 20 BOOST FWD

FWD transient thermal impedance as a function of pulse width

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



At
 $D = t_p / T$
 $R_{thJH} = 0,23 \text{ K/W}$

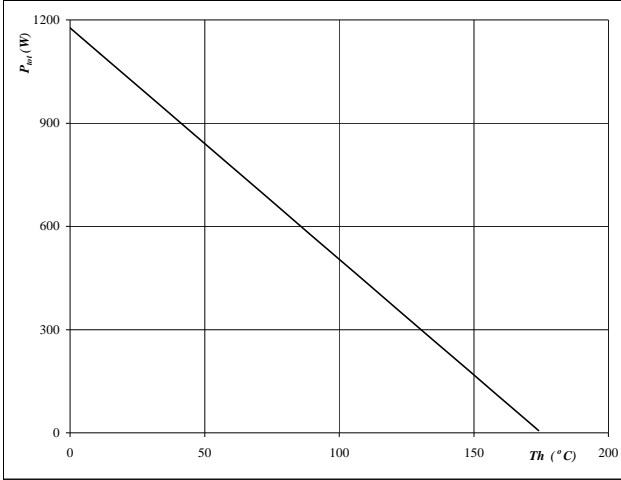
FWD thermal model values

R (C/W)	Tau (s)
2,60E-02	4,70E+00
2,94E-02	8,50E-01
6,05E-02	1,28E-01
8,30E-02	2,59E-02
1,76E-02	5,35E-03
1,05E-02	5,51E-04

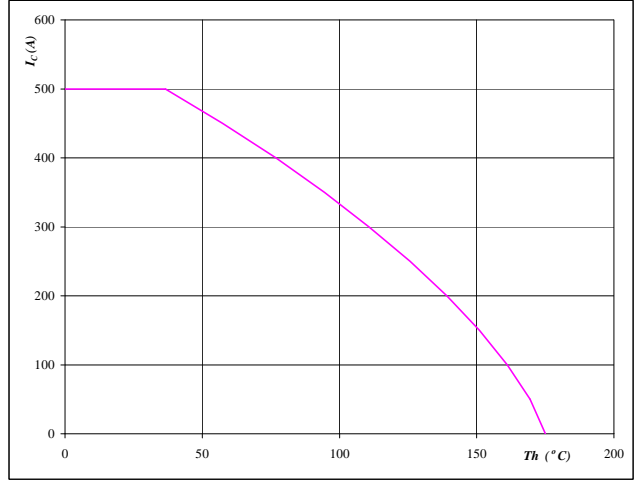
INPUT BOOST

Figure 21 BOOST IGBT
Power dissipation as a function of heatsink temperature

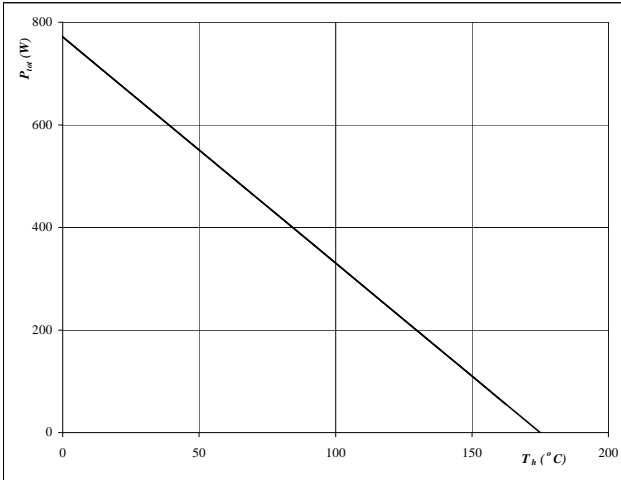
$$P_{tot} = f(T_h)$$


At
 $T_j = 175 \text{ } ^\circ\text{C}$
Figure 22 BOOST IGBT
Collector/Drain current as a function of heatsink temperature

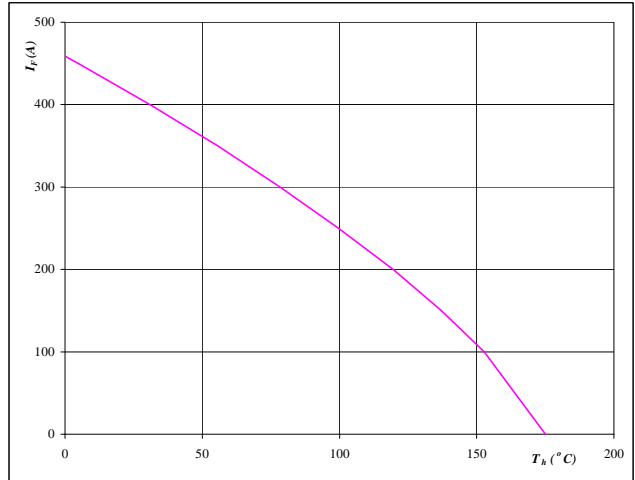
$$I_C = f(T_h)$$


At
 $T_j = 175 \text{ } ^\circ\text{C}$
 $V_{GS} = 15 \text{ V}$
Figure 23 BOOST FWD
Power dissipation as a function of heatsink temperature

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


At
 $T_j = 175 \text{ } ^\circ\text{C}$
Figure 24 BOOST FWD
Forward current as a function of heatsink temperature

$$I_F = f(T_h)$$

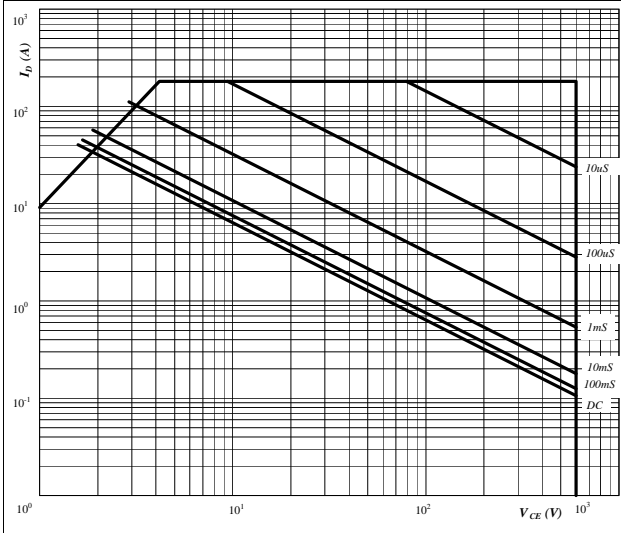

At
 $T_j = 175 \text{ } ^\circ\text{C}$

INPUT BOOST

Figure 25 BOOST IGBT

Safe operating area as a function of drain-source voltage

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

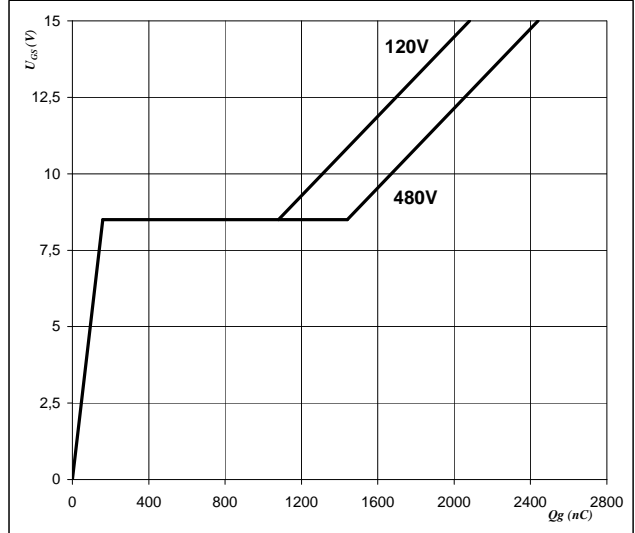


At
 D = single pulse
 $T_h = 80$ °C
 $V_{GS} = +15/-8$ V
 $T_j = T_{jmax}$ °C

Figure 26 BOOST IGBT

Gate voltage vs Gate charge

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

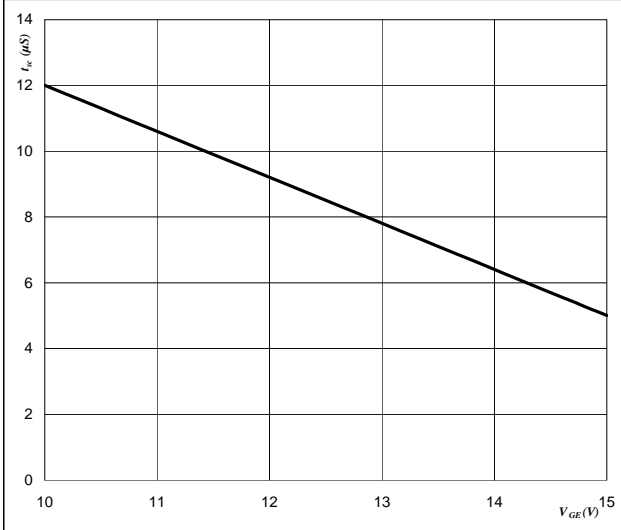


At
 $I_D = 400$ A

Figure 27 Output inverter IGBT

Short circuit withstand time as a function of gate-emitter voltage

$$t_{sc} = f(V_{GE})$$

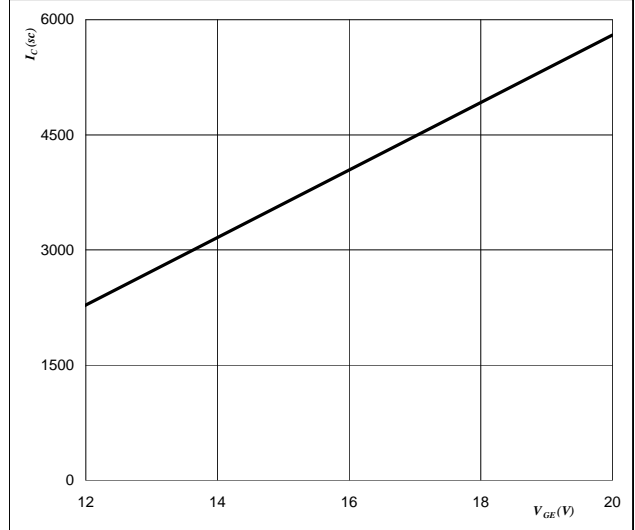


At
 $V_{CE} = 600$ V
 $T_j \leq 150$ °C

Figure 28 Output inverter IGBT

Typical short circuit collector current as a function of gate-emitter voltage

$$V_{GE} = f(Q_{GE})$$



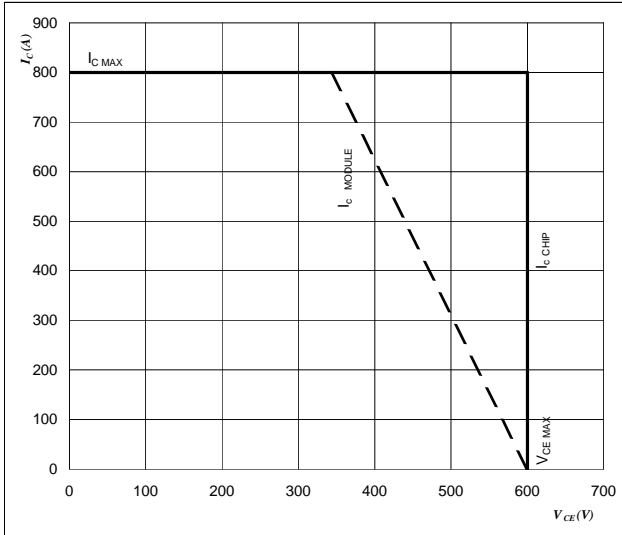
At
 $V_{CE} \leq 600$ V
 $T_j = 150$ °C

INPUT BOOST

Figure 29 IGBT

Reverse bias safe operating area

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


At

$$T_J = T_{jmax} - 25 \text{ } ^\circ\text{C} \quad R_{gon} = 0 \quad \Omega$$

$$U_{ocminus} = U_{ccplus} \quad R_{goff} = 0 \quad \Omega$$

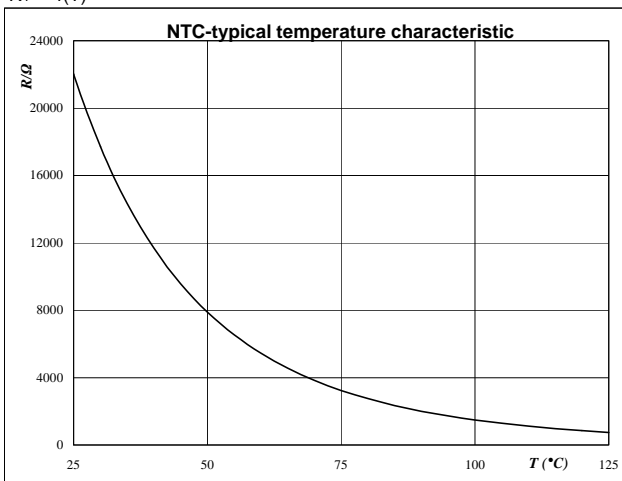
Switching mode : 3 level switching

Thermistor

Figure 1 Thermistor

Typical NTC characteristic as a function of temperature

$$R_T = f(T)$$

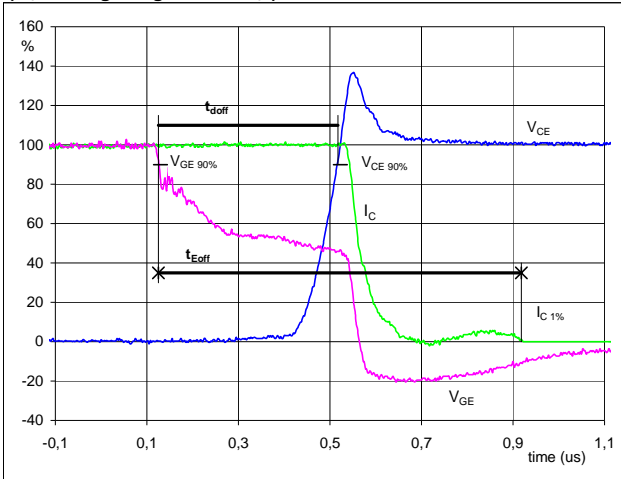


Switching Definitions Boost IGBT

General conditions	
T_j	= 125 °C
R_{gon}	= 1 Ω
R_{goff}	= 1 Ω

Figure 1 Boost IGBT

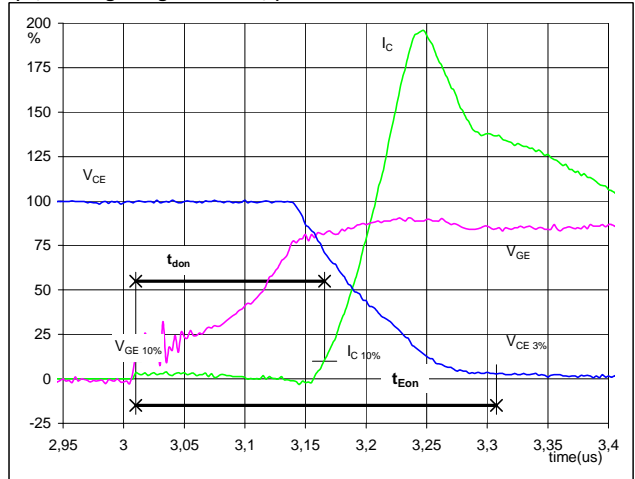
Turn-off Switching Waveforms & definition of t_{doff} , t_{Eoff}
 (t_{Eoff} = integrating time for E_{off})



$V_{GE}(0\%) =$	0	V
$V_{GE}(100\%) =$	23	V
$V_C(100\%) =$	400	V
$I_C(100\%) =$	413	A
$t_{doff} =$	0,39	μs
$t_{Eoff} =$	0,79	μs

Figure 2 Boost IGBT

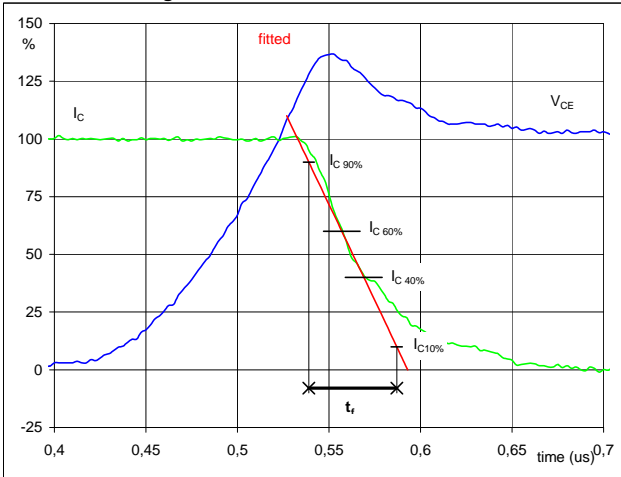
Turn-on Switching Waveforms & definition of t_{don} , t_{Eon}
 (t_{Eon} = integrating time for E_{on})



$V_{GE}(0\%) =$	0	V
$V_{GE}(100\%) =$	23	V
$V_C(100\%) =$	400	V
$I_C(100\%) =$	413	A
$t_{don} =$	0,16	μs
$t_{Eon} =$	0,30	μs

Figure 3 Boost IGBT

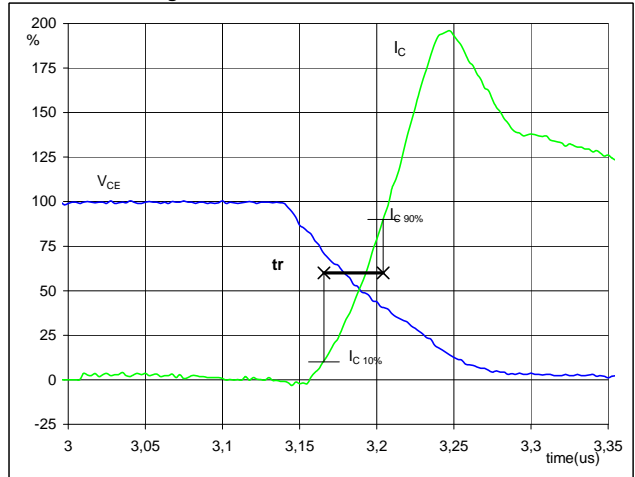
Turn-off Switching Waveforms & definition of t_f



$V_C(100\%) =$	400	V
$I_C(100\%) =$	413	A
$t_f =$	0,05	μs

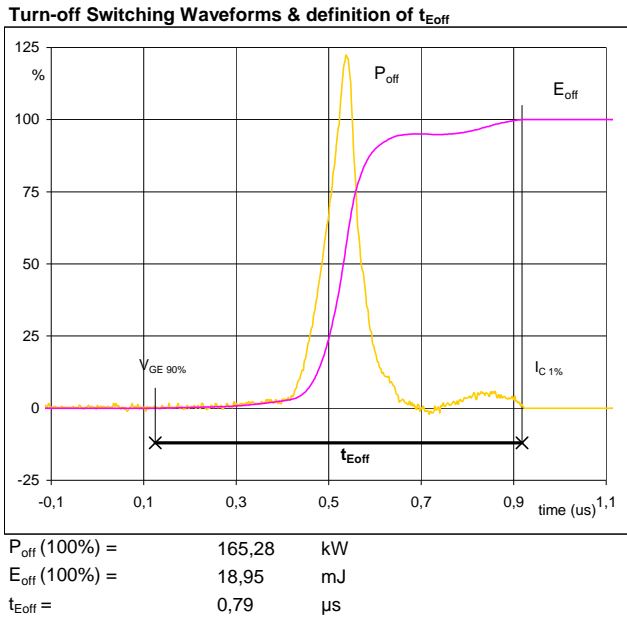
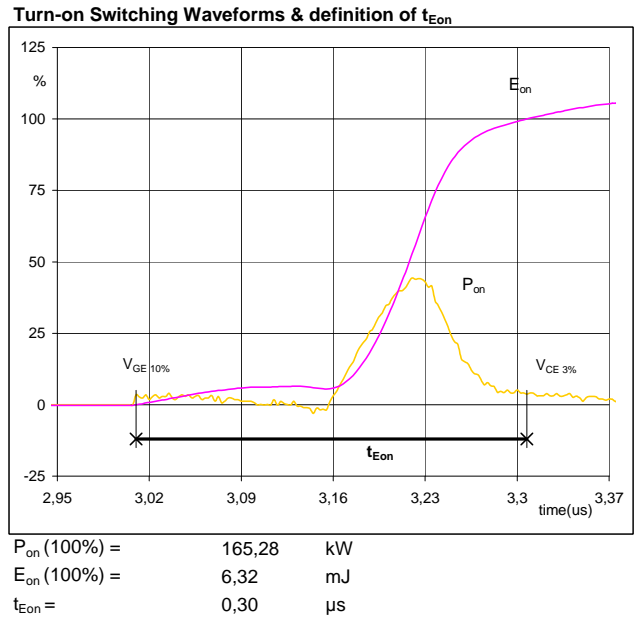
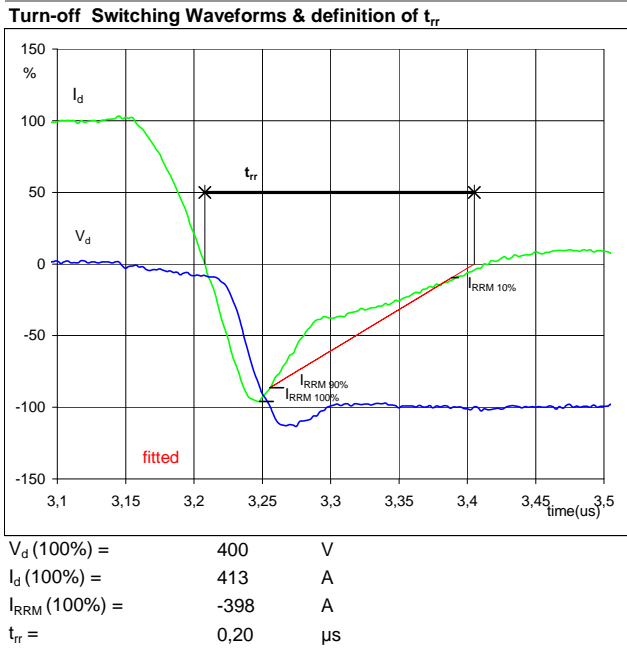
Figure 4 Boost IGBT

Turn-on Switching Waveforms & definition of t_r



$V_C(100\%) =$	400	V
$I_C(100\%) =$	413	A
$t_r =$	0,04	μs

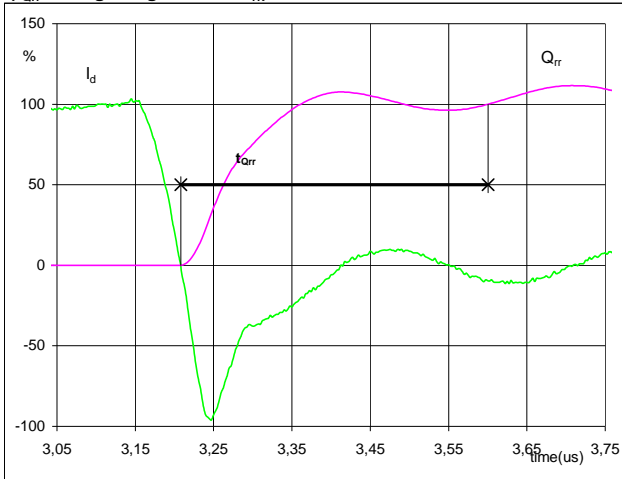
Switching Definitions Boost IGBT

Figure 5 Boost IGBT

Figure 6 Boost IGBT

Figure 7 Boost IGBT


Switching Definitions Boost IGBT

Figure 8 Boost FWD

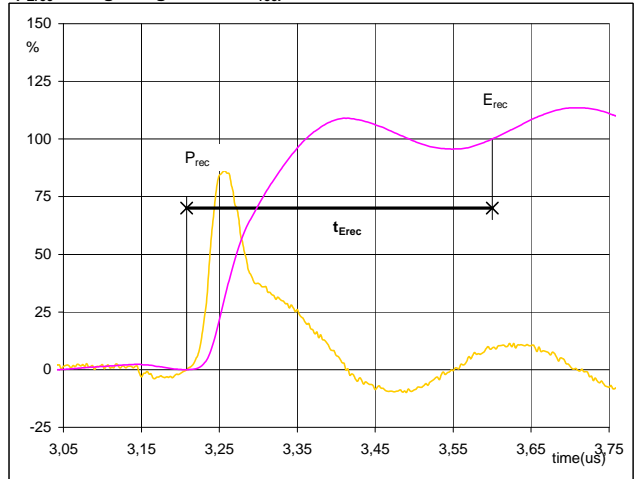
Turn-on Switching Waveforms & definition of t_{Qrr}
 (t_{Qrr} = integrating time for Q_{rr})



I_d (100%) =	413	A
Q_{rr} (100%) =	30,70	μC
t_{Qrr} =	0,39	μs

Figure 9 Boost FWD

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



P_{rec} (100%) =	165,28	kW
E_{rec} (100%) =	10,48	mJ
t_{Erec} =	0,39	μs

Ordering Code and Marking - Outline - Pinout

Ordering Code & Marking

Version	Ordering Code	in DataMatrix as	in packaging barcode as
without thermal paste 12mm housing	70-W206NBA400SA-M786L	M786L	M786L

Outline

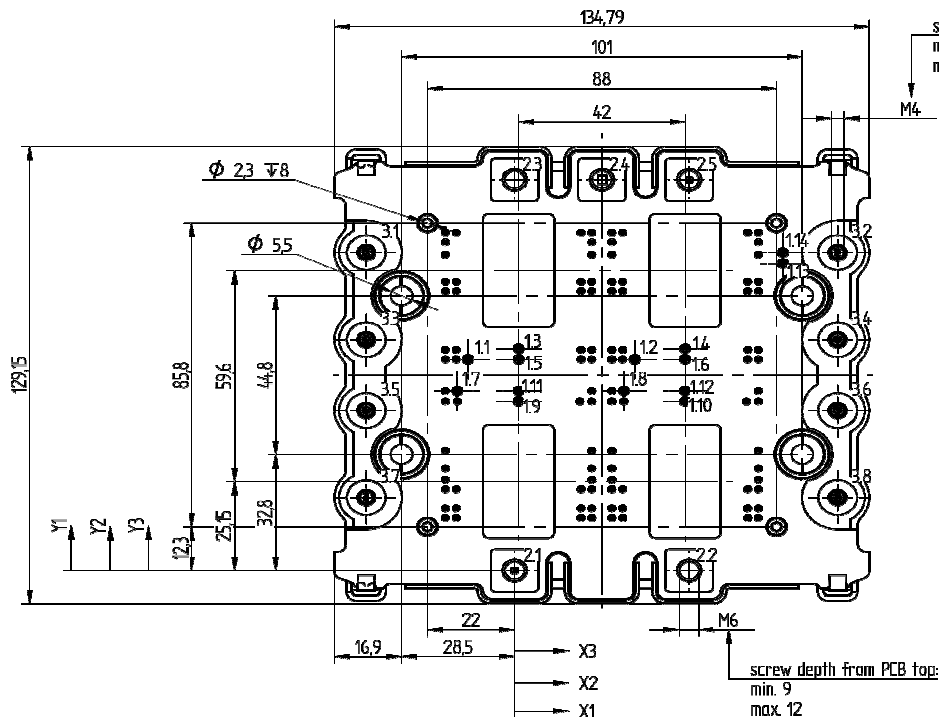
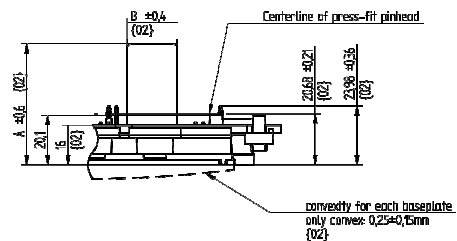
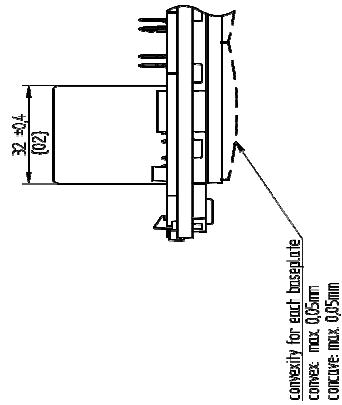
Driver pins				
Pin	X1	Y1	Function	Group
1.1	-11,75	59,65	T2C1	T2
1.2	30,25	59,65	T2C2	T2
1.3	1	62,65	G21	G2
1.4	43	62,65	G22	G2
1.5	1	59,65	E21	E2
1.6	43	59,65	E22	E2
1.7	-14,45	50,75	T3C1	T3
1.8	27,55	50,75	T3C2	T3
1.9	1	47,75	G31	G3
1.10	43	47,75	G32	G3
1.11	1	50,75	E31	E3
1.12	43	50,75	E32	E3
1.13	67,65	86,7	Th1	NTC
1.14	67,65	89,8	Th2	NTC

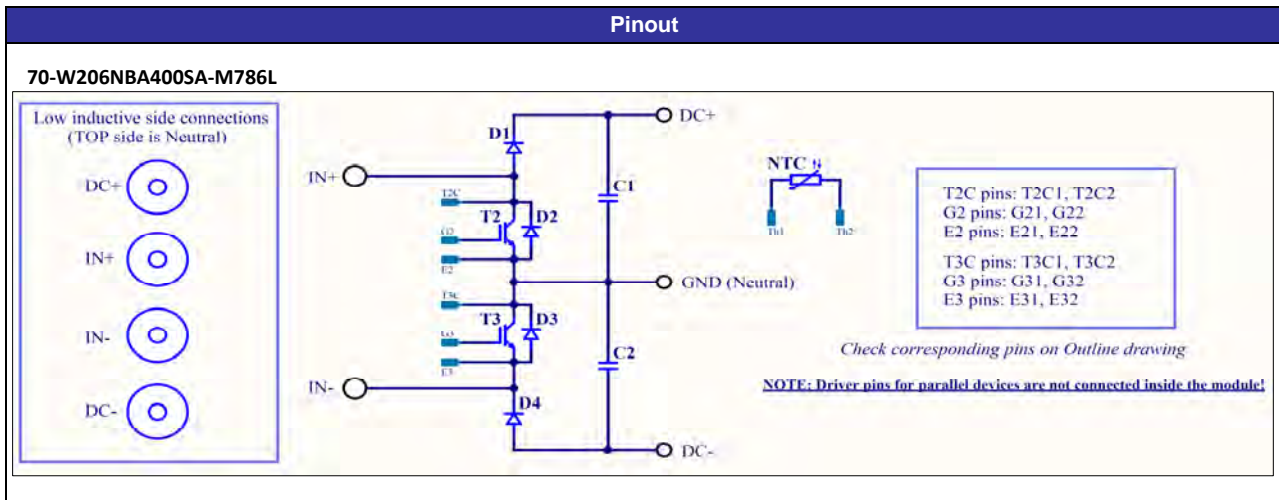
Power connections			
M6 screw	X2	Y2	Function
2.1	0	0	IN-
2.2	44	0	IN+
2.3	0	110,4	DC-
2.4	22	110,4	GND
2.5	44	110,4	DC+

Low current connections			
M4 screw	X3	Y3	Function
3.1	-37,4	89,8	DC+
3.2	81,4	89,8	DC+
3.3	-37,4	65,2	IN+
3.4	81,4	65,2	IN+
3.5	-37,4	45,2	IN-
3.6	81,4	45,2	IN-
3.7	-37,4	20,6	DC-
3.8	81,4	20,6	DC-

Tolerance of pinpositions: $\pm 0,3\text{mm}$ at the end of pins
PCB holes and connection parameters of pins see in the handling instruction document

Module type	dim. A	dim. B
M786L	40,5	15
M788L	49	18



Ordering Code and Marking - Outline - Pinout


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