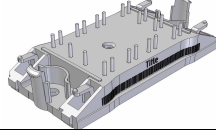
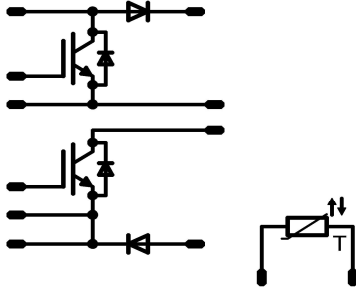




<b>flowBOOST0</b>	<b>600V/75A</b>
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p style="text-align: center; background-color: #000080; color: white; margin: 0;"><b>Features</b></p> <ul style="list-style-type: none"> <li>Symmetric boost</li> <li>Clip-In PCB mounting</li> <li>Low Inductance Layout</li> </ul> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p style="text-align: center; background-color: #000080; color: white; margin: 0;"><b>Target Applications</b></p> <ul style="list-style-type: none"> <li>UPS</li> </ul> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; background-color: #000080; color: white; margin: 0;"><b>Types</b></p> <ul style="list-style-type: none"> <li>10-FZ06NBA075SA-P916L33</li> </ul> </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p style="text-align: center; background-color: #000080; color: white; margin: 0;"><b>flow0 housing</b></p>  </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; background-color: #000080; color: white; margin: 0;"><b>Schematic</b></p>  </div>

### Maximum Ratings

T<sub>j</sub>=25°C, unless otherwise specified

Parameter	Symbol	Condition	Value	Unit
<b>Input Boost IGBT</b>				
Collector-emitter break down voltage	V <sub>CE</sub>		600	V
DC collector current	I <sub>C</sub>	T <sub>j</sub> =T <sub>jmax</sub> T <sub>h</sub> =80°C T <sub>c</sub> =80°C	56 74	A
Repetitive peak collector current	I <sub>Cpulse</sub>	t <sub>p</sub> limited by T <sub>jmax</sub>	225	A
Power dissipation per IGBT	P <sub>tot</sub>	T <sub>j</sub> =T <sub>jmax</sub> T <sub>h</sub> =80°C T <sub>c</sub> =80°C	93 141	W
Gate-emitter peak voltage	V <sub>GE</sub>		±20	V
Short circuit ratings	t <sub>SC</sub> V <sub>CC</sub>	T <sub>j</sub> ≤150°C V <sub>GE</sub> =15V	6 360	μs V
Maximum Junction Temperature	T <sub>jmax</sub>		175	°C
<b>Input Boost Inverse Diode</b>				
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	T <sub>j</sub> =25°C	600	V
DC forward current	I <sub>F</sub>	T <sub>j</sub> =T <sub>jmax</sub> T <sub>h</sub> =80°C T <sub>c</sub> =80°C	33 44	A
Repetitive peak forward current	I <sub>FRM</sub>	t <sub>p</sub> limited by T <sub>jmax</sub>	90	A
Power dissipation per Diode	P <sub>tot</sub>	T <sub>j</sub> =T <sub>jmax</sub> T <sub>h</sub> =80°C T <sub>c</sub> =80°C	53 80	W
Maximum Junction Temperature	T <sub>jmax</sub>		175	°C

**Maximum Ratings**T<sub>j</sub>=25°C, unless otherwise specified

Parameter	Symbol	Condition	Value	Unit	
<b>Input Boost FWD</b>					
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	T <sub>j</sub> =25°C	600	V	
DC forward current	I <sub>F</sub>	T <sub>j</sub> =T <sub>jmax</sub>	T <sub>h</sub> =80°C	63	A
			T <sub>c</sub> =80°C	83	
Repetitive peak forward current	I <sub>FRM</sub>	t <sub>p</sub> limited by T <sub>jmax</sub>	150	A	
Power dissipation	P <sub>tot</sub>	T <sub>j</sub> =T <sub>jmax</sub>	T <sub>h</sub> =80°C	86	W
			T <sub>c</sub> =80°C	130	
Maximum Junction Temperature	T <sub>jmax</sub>		175	°C	

**Thermal Properties**

Storage temperature	T <sub>stg</sub>		-40...+125	°C
Operation temperature under switching condition	T <sub>op</sub>		-40...+(T <sub>jmax</sub> - 25)	°C

**Insulation Properties**

Insulation voltage	V <sub>is</sub>	t=2s 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		
<b>Input Boost IGBT</b>										
Gate emitter threshold voltage	$V_{GE(th)}$	$V_{CE}=V_{GE}$			0,0012	$T_j=25^{\circ}C$ $T_j=150^{\circ}C$	5	5,8	6,5	V
Collector-emitter saturation voltage	$V_{CE(sat)}$		15		75	$T_j=25^{\circ}C$ $T_j=150^{\circ}C$	1	1,63 1,86	2,1	V
Collector-emitter cut-off	$I_{CES}$		0	600		$T_j=25^{\circ}C$ $T_j=150^{\circ}C$			0,2	mA
Gate-emitter leakage current	$I_{GES}$		20	0		$T_j=25^{\circ}C$ $T_j=150^{\circ}C$			650	nA
Integrated Gate resistor	$R_{gint}$							none		$\Omega$
Turn-on delay time	$t_{d(on)}$	$R_{goff}=8 \Omega$ $R_{gon}=8 \Omega$	$\pm 15$	300	75	$T_j=25^{\circ}C$		151		ns
Rise time	$t_r$					$T_j=150^{\circ}C$		154		
Turn-off delay time	$t_{d(off)}$					$T_j=25^{\circ}C$		20		
Fall time	$t_f$					$T_j=150^{\circ}C$		24		
Turn-on energy loss per pulse	$E_{on}$					$T_j=25^{\circ}C$		209		
Turn-off energy loss per pulse	$E_{off}$					$T_j=150^{\circ}C$		233		
Input capacitance	$C_{ies}$									
Output capacitance	$C_{oss}$	$f=1MHz$	0	25		$T_j=25^{\circ}C$		288		
Reverse transfer capacitance	$C_{rss}$							137		
Gate charge	$Q_{Gate}$	$f=1MHz$	0	25		$T_j=25^{\circ}C$		470		nC
Thermal resistance chip to heatsink per chip	$R_{thJH}$	Thermal grease thickness $\leq 50\mu m$ $\lambda = 1 W/mK$						1,02		K/W
<b>Input Boost Inverse Diode</b>										
Diode forward voltage	$V_F$				10	$T_j=25^{\circ}C$ $T_j=125^{\circ}C$	1	1,63 1,56	2,05	V
Thermal resistance chip to heatsink per chip	$R_{thJH}$	Thermal grease thickness $\leq 50\mu m$ $\lambda = 1 W/mK$						1,8		K/W
<b>Input Boost FWD</b>										
Forward voltage	$V_F$				75	$T_j=25^{\circ}C$ $T_j=125^{\circ}C$	1	1,49 1,46	2	V
Reverse leakage current	$I_{rm}$			600		$T_j=25^{\circ}C$ $T_j=125^{\circ}C$			30	$\mu A$
Peak recovery current	$I_{RRM}$	$R_{goff}=8 \Omega$	$\pm 15$	300	75	$T_j=25^{\circ}C$		70		A
Reverse recovery time	$t_{rr}$					$T_j=125^{\circ}C$		86		
Reverse recovery charge	$Q_{rr}$					$T_j=25^{\circ}C$		117		
Reverse recovered energy	$E_{rec}$					$T_j=125^{\circ}C$		152		
Peak rate of fall of recovery current	$di(rec)max/dt$					$T_j=25^{\circ}C$		3,07		
						$T_j=125^{\circ}C$		6,19		
						$T_j=25^{\circ}C$		0,61		
Thermal resistance chip to heatsink	$R_{thJH}$	Thermal grease thickness $\leq 50\mu m$ $\lambda = 1 W/mK$						1,11		K/W
<b>Thermistor</b>										
Rated resistance	R					$T_j=25^{\circ}C$		22000		$\Omega$
Deviation of R100	$\Delta_{R/R}$	R100=1486 $\Omega$				$T_j=100^{\circ}C$	-5		+5	%
Power dissipation	P					$T_j=25^{\circ}C$		200		mW
Power dissipation constant						$T_j=25^{\circ}C$		2		mW/K
B-value	$B_{(25/50)}$	Tol. $\pm 3\%$				$T_j=25^{\circ}C$		3950		K
B-value	$B_{(25/100)}$	Tol. $\pm 3\%$				$T_j=25^{\circ}C$		3996		K
Vincotech NTC Reference									B	

\* see details on **Thermistor** charts on **Figure 2**.

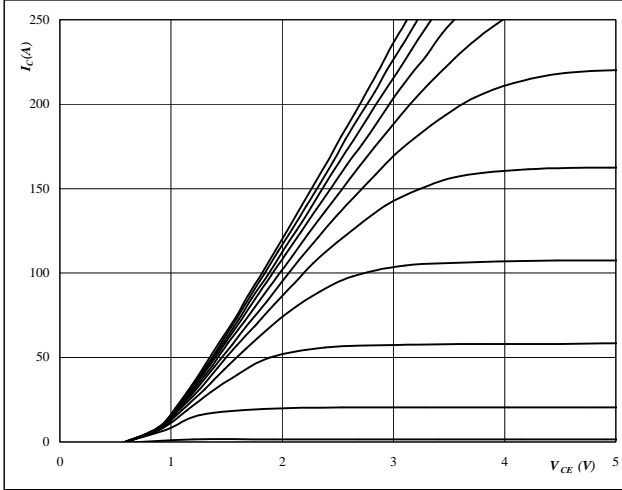


### INPUT BOOST

Figure 1 BOOST IGBT

Typical output characteristics

$I_C = f(V_{CE})$



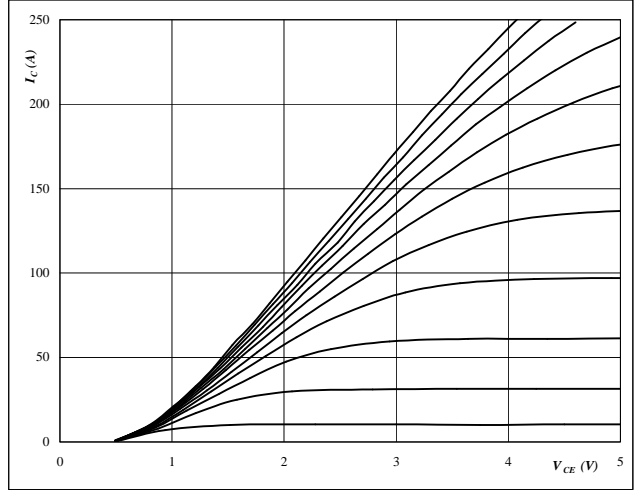
At

$t_p = 250 \mu s$   
 $T_j = 25 \text{ }^\circ C$   
 $V_{GE}$  from 7 V to 17 V in steps of 1 V

Figure 2 BOOST IGBT

Typical output characteristics

$I_C = f(V_{CE})$



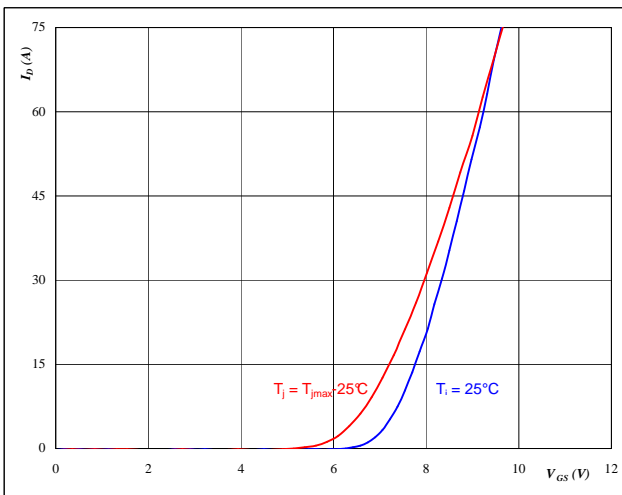
At

$t_p = 250 \mu s$   
 $T_j = 150 \text{ }^\circ C$   
 $V_{GE}$  from 7 V to 17 V in steps of 1 V

Figure 3 BOOST IGBT

Typical transfer characteristics

$I_D = f(V_{CE})$



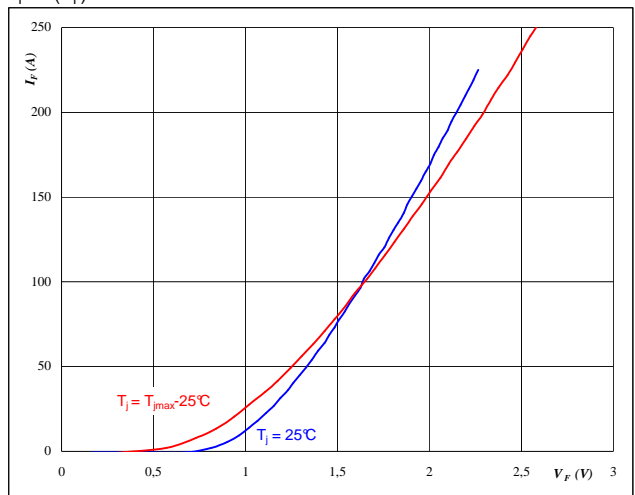
At

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

Figure 4 BOOST FWD

Typical diode forward current as a function of forward voltage

$I_F = f(V_F)$



At

$t_p = 250 \mu s$

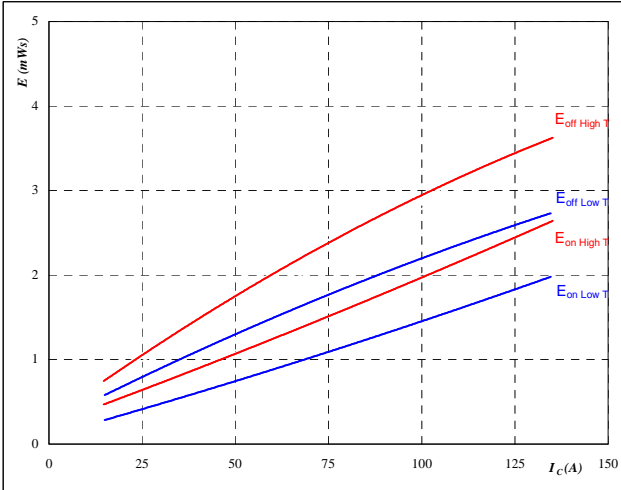


### INPUT BOOST

Figure 5 BOOST IGBT

Typical switching energy losses as a function of collector current

$E = f(I_C)$



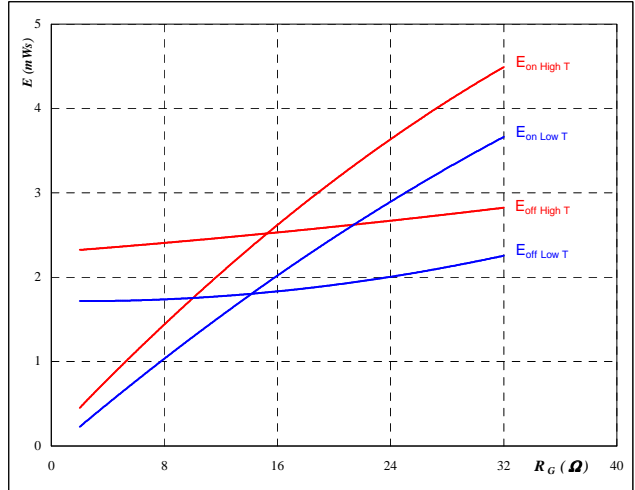
With an inductive load at

- T<sub>j</sub> = 25/150 °C
- V<sub>CE</sub> = 300 V
- V<sub>GE</sub> = ±15 V
- R<sub>gon</sub> = 8 Ω
- R<sub>goff</sub> = 8 Ω

Figure 6 BOOST IGBT

Typical switching energy losses as a function of gate resistor

$E = f(R_G)$



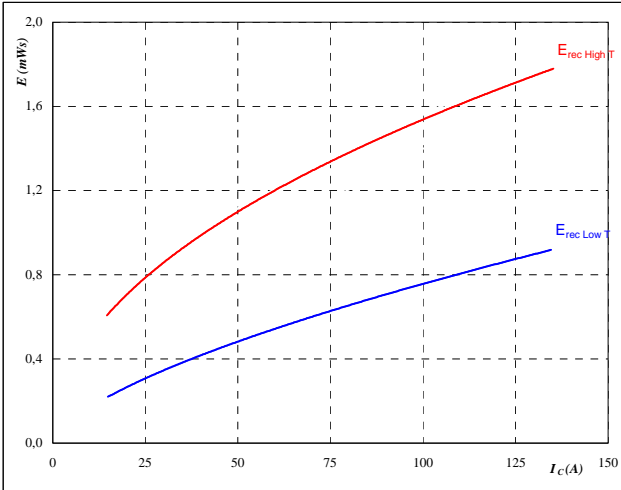
With an inductive load at

- T<sub>j</sub> = 25/150 °C
- V<sub>CE</sub> = 300 V
- V<sub>GE</sub> = ±15 V
- I<sub>C</sub> = 75 A

Figure 7 BOOST IGBT

Typical reverse recovery energy loss as a function of collector current

$E_{rec} = f(I_C)$



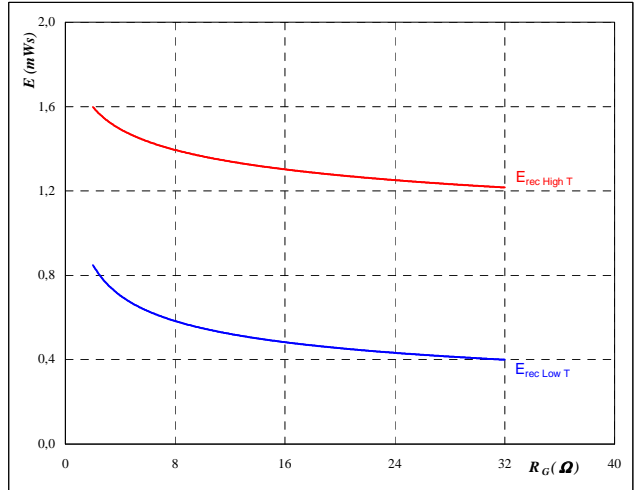
With an inductive load at

- T<sub>j</sub> = 25/150 °C
- V<sub>CE</sub> = 300 V
- V<sub>GE</sub> = ±15 V
- R<sub>gon</sub> = 8 Ω
- R<sub>goff</sub> = 8 Ω

Figure 8 BOOST IGBT

Typical reverse recovery energy loss as a function of gate resistor

$E_{rec} = f(R_G)$



With an inductive load at

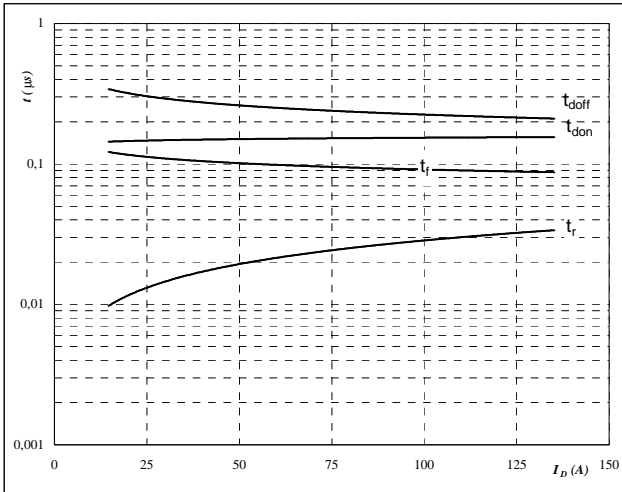
- T<sub>j</sub> = 25/150 °C
- V<sub>CE</sub> = 300 V
- V<sub>GE</sub> = ±15 V
- I<sub>C</sub> = 75 A



### INPUT BOOST

Figure 9 BOOST IGBT

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

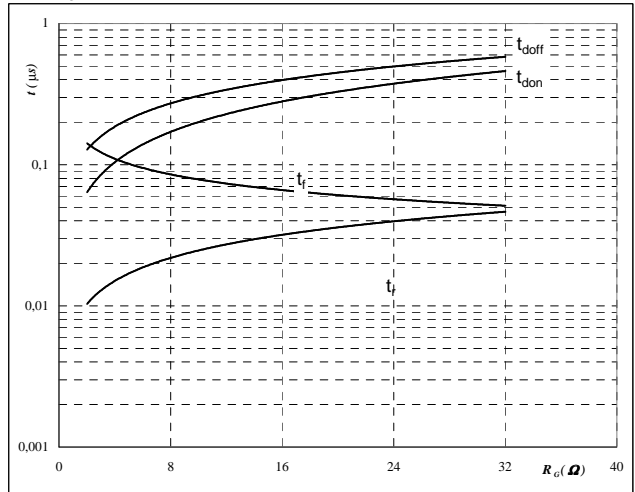


With an inductive load at

$T_j =$	150	°C
$V_{CE} =$	300	V
$V_{GE} =$	±15	V
$R_{gon} =$	8	Ω
$R_{goff} =$	8,015	Ω

Figure 10 BOOST IGBT

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

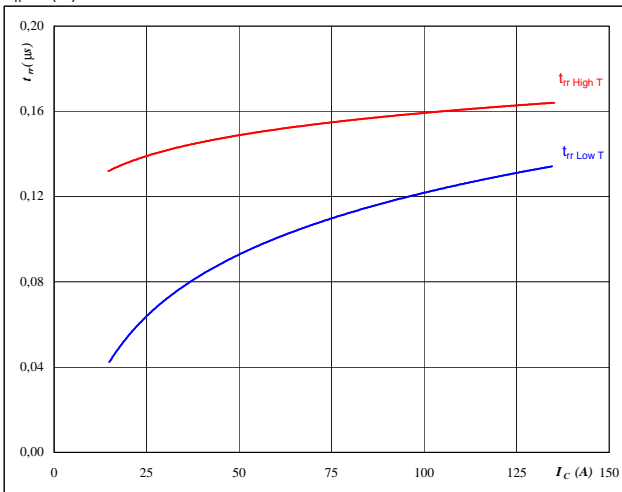


With an inductive load at

$T_j =$	150	°C
$V_{CE} =$	300	V
$V_{GE} =$	±15	V
$I_C =$	75	A

Figure 11 BOOST FWD

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

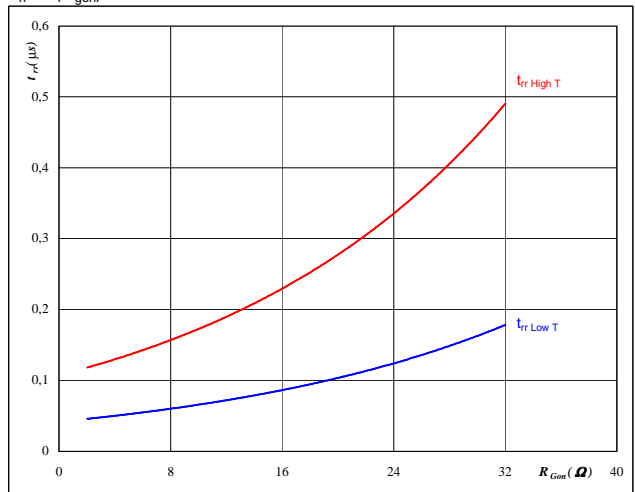


At

$T_j =$	25/150	°C
$V_{CE} =$	300	V
$V_{GE} =$	±15	V
$R_{gon} =$	8	Ω

Figure 12 BOOST FWD

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



At

$T_j =$	25/150	°C
$V_R =$	300	V
$I_F =$	75	A
$V_{GE} =$	±15	V

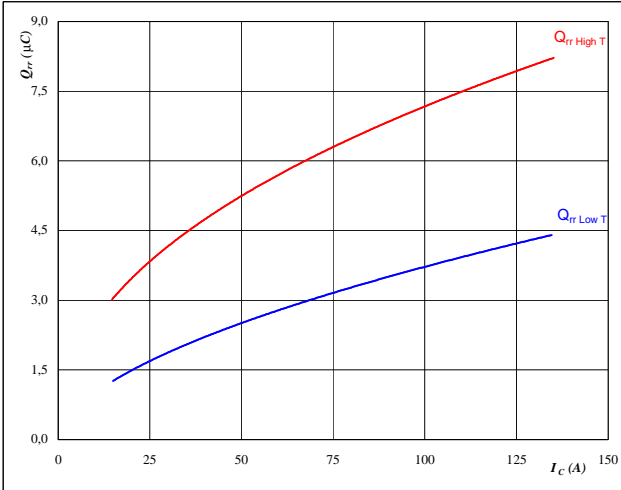


### INPUT BOOST

Figure 13 BOOST FWD

Typical reverse recovery charge as a function of collector current

$Q_{rr} = f(I_C)$



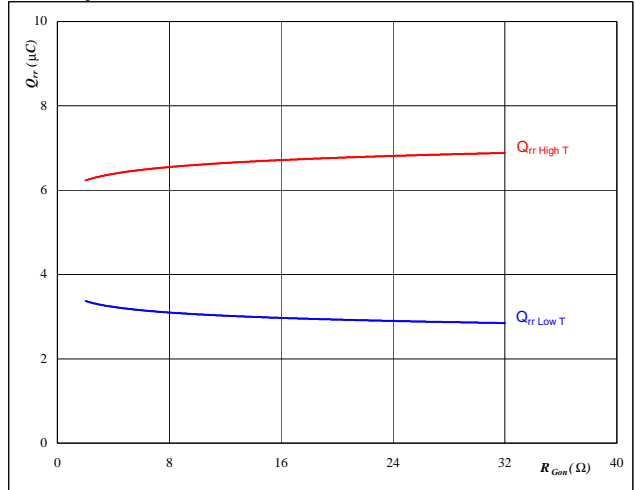
At

$T_j =$	25/150	°C
$V_{CE} =$	300	V
$V_{GE} =$	±15	V
$R_{gon} =$	8	Ω

Figure 14 BOOST FWD

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

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



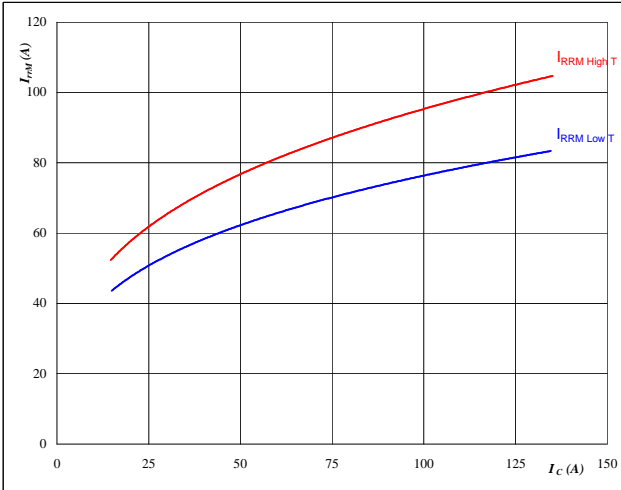
At

$T_j =$	25/150	°C
$V_R =$	300	V
$I_F =$	75	A
$V_{GE} =$	±15	V

Figure 15 BOOST FWD

Typical reverse recovery current as a function of collector current

$I_{RRM} = f(I_C)$



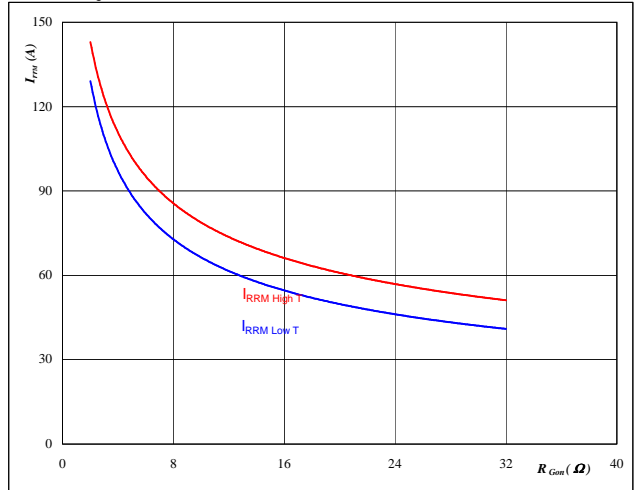
At

$T_j =$	25/150	°C
$V_{CE} =$	300	V
$V_{GE} =$	±15	V
$R_{gon} =$	8	Ω

Figure 16 BOOST FWD

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

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



At

$T_j =$	25/150	°C
$V_R =$	300	V
$I_F =$	75	A
$V_{GE} =$	±15	V

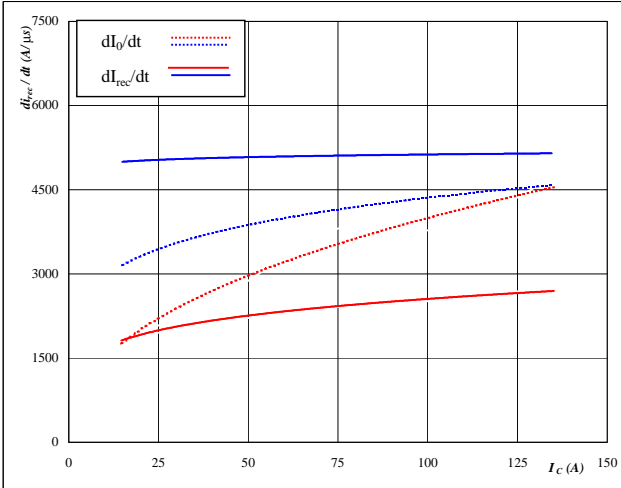


INPUT BOOST

Figure 17 BOOST FWD

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

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

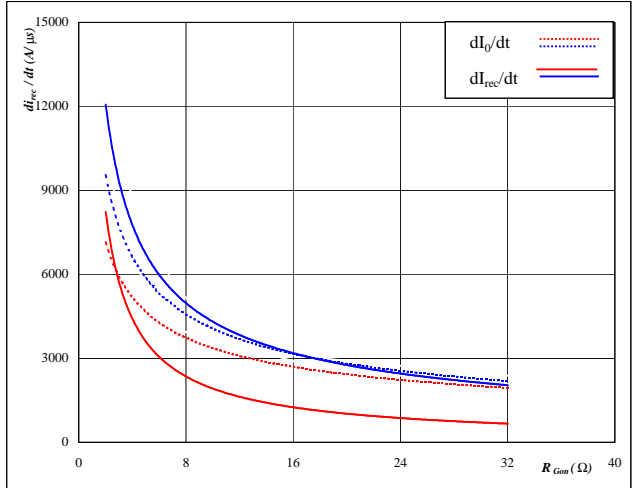


At  
 T<sub>j</sub> = 25/150 °C  
 V<sub>CE</sub> = 300 V  
 V<sub>GE</sub> = ±15 V  
 R<sub>gon</sub> = 8 Ω

Figure 18 BOOST FWD

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

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

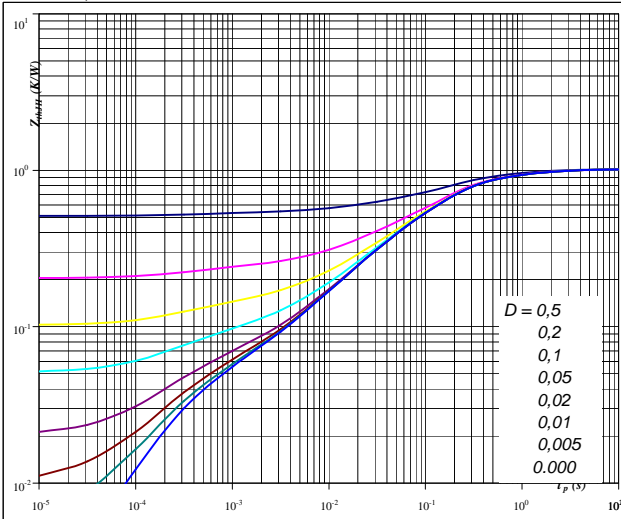


At  
 T<sub>j</sub> = 25/150 °C  
 V<sub>GE</sub> = 300 V  
 I<sub>F</sub> = 75 A  
 V<sub>CE</sub> = ±15 V

Figure 19 BOOST IGBT

IGBT transient thermal impedance as a function of pulse width

$Z_{thJH} = f(t_p)$



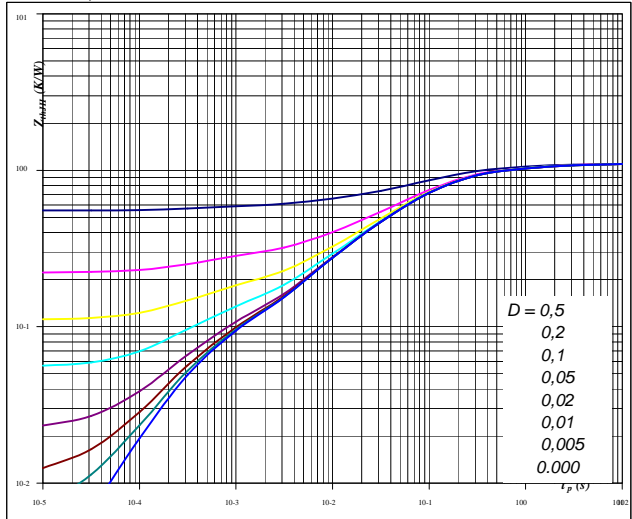
At  
 D = t<sub>p</sub> / T  
 R<sub>thJH</sub> = 1,02 K/W IGBT thermal model values

R (C/W)	Tau (s)
0,037	6,37E+00
0,176	8,57E-01
0,550	1,57E-01
0,179	2,60E-02
0,042	3,81E-03
0,037	3,09E-04

Figure 20 BOOST FWD

FWD transient thermal impedance as a function of pulse width

$Z_{thJH} = f(t_p)$



At  
 D = t<sub>p</sub> / T  
 R<sub>thJH</sub> = 1,11 K/W FWD thermal model values

R (C/W)	Tau (s)
0,03	9,19E+00
0,13	9,97E-01
0,43	1,49E-01
0,33	3,47E-02
0,12	5,94E-03
0,07	3,69E-04



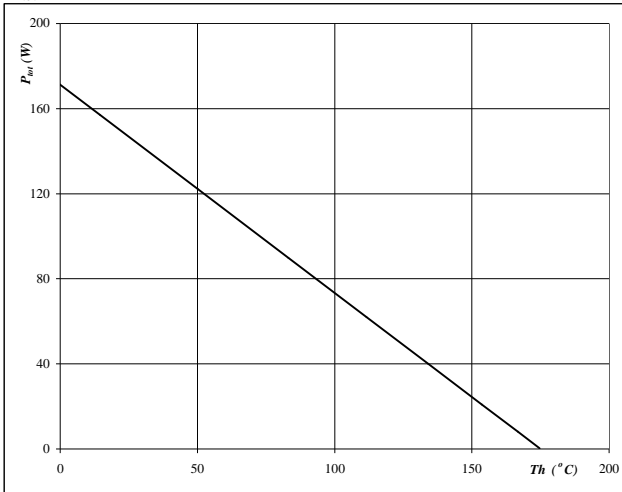


# INPUT BOOST

Figure 21 BOOST IGBT

Power dissipation as a function of heatsink temperature

$P_{tot} = f(T_h)$

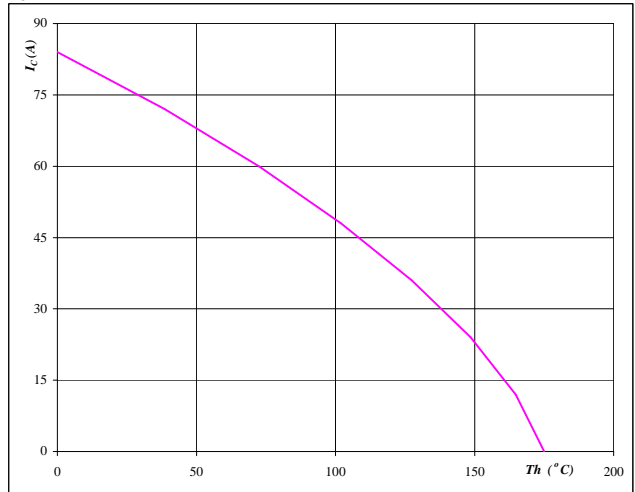


At  
T<sub>j</sub> = 175 °C

Figure 22 BOOST IGBT

Collector current as a function of heatsink temperature

$I_C = f(T_h)$

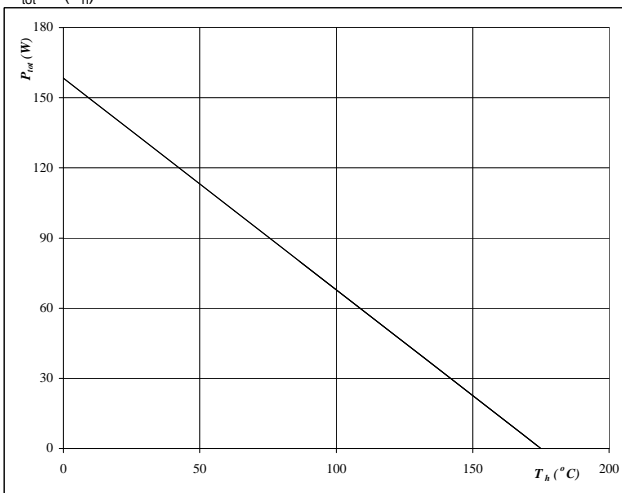


At  
T<sub>j</sub> = 175 °C  
V<sub>GE</sub> = 15 V

Figure 23 BOOST FWD

Power dissipation as a function of heatsink temperature

$P_{tot} = f(T_h)$

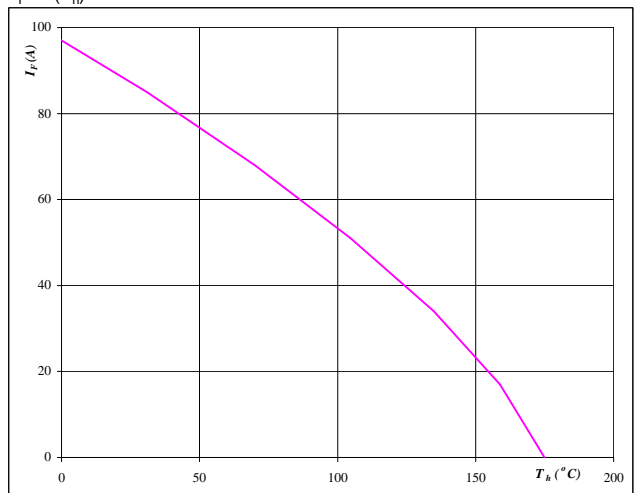


At  
T<sub>j</sub> = 175 °C

Figure 24 BOOST FWD

Forward current as a function of heatsink temperature

$I_F = f(T_h)$



At  
T<sub>j</sub> = 175 °C

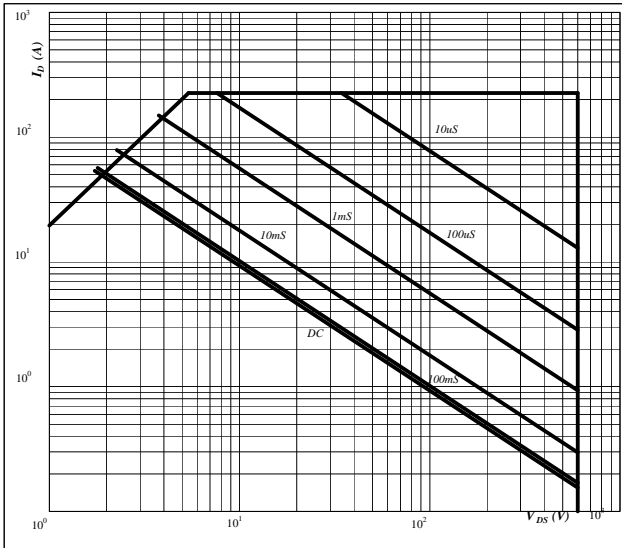


### INPUT BOOST

Figure 25 BOOST IGBT

Safe operating area as a function of drain-source voltage

$I_C = f(V_{CE})$

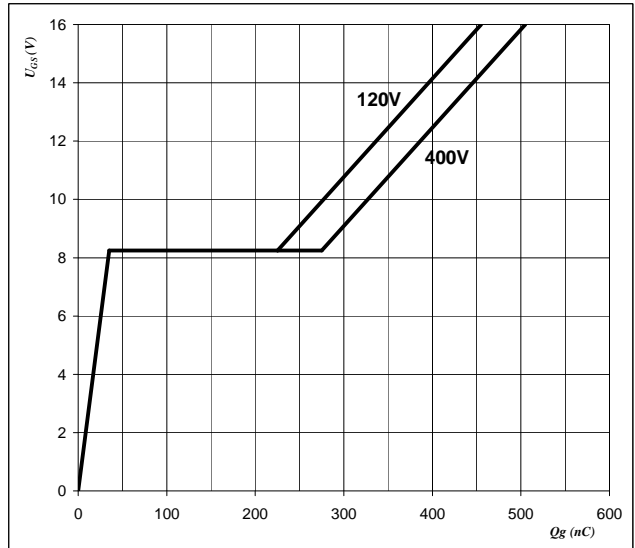


At  
 D = single pulse  
 $T_h = 80 \text{ } ^\circ\text{C}$   
 $V_{GE} = \pm 15 \text{ V}$   
 $T_j = T_{jmax} \text{ } ^\circ\text{C}$

Figure 26 BOOST IGBT

Gate voltage vs Gate charge

$V_{GE} = f(Q_g)$



At  
 $I_C = 75 \text{ A}$

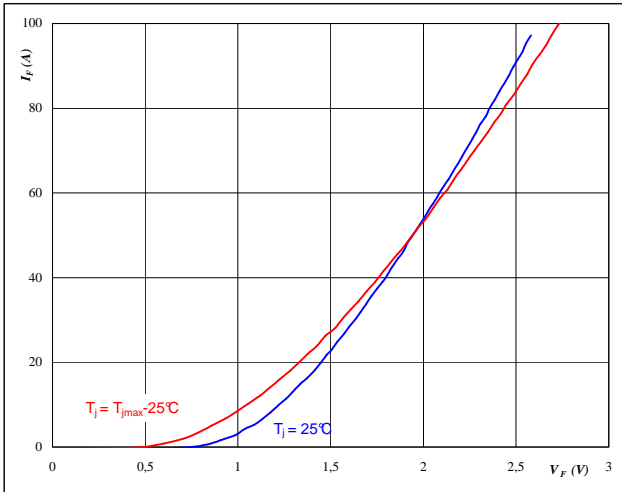


### BOOST INV. DIODE

Figure 1 BOOST INV. DIODE

Typical diode forward current as a function of forward voltage

$I_F = f(V_F)$

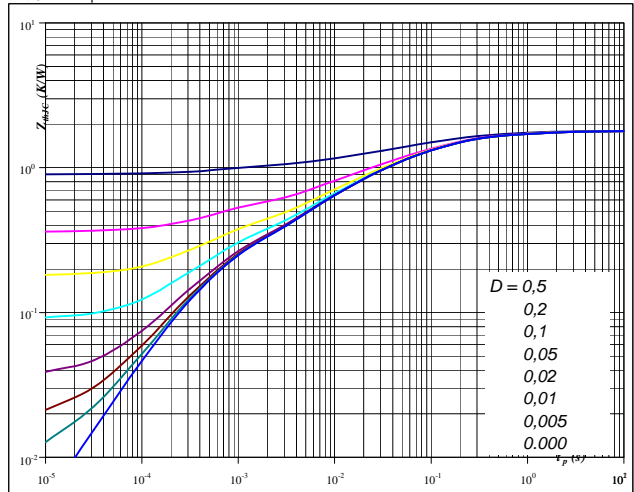


At  $t_p = 250 \mu s$

Figure 2 BOOST INV. DIODE

Diode transient thermal impedance as a function of pulse width

$Z_{thJH} = f(t_p)$



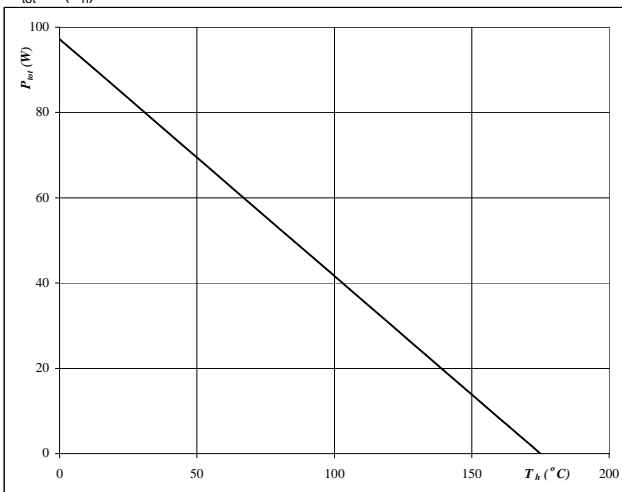
At  $D = t_p / T$   
 $R_{thJH} = 1,800 \text{ K/W}$

R (C/W)	Tau (s)
0,03771	8,99E+00
0,1799	8,31E-01
0,599	1,28E-01
0,4734	2,78E-02
0,3096	5,76E-03
0,2008	4,67E-04

Figure 3 BOOST INV. DIODE

Power dissipation as a function of heatsink temperature

$P_{tot} = f(T_h)$

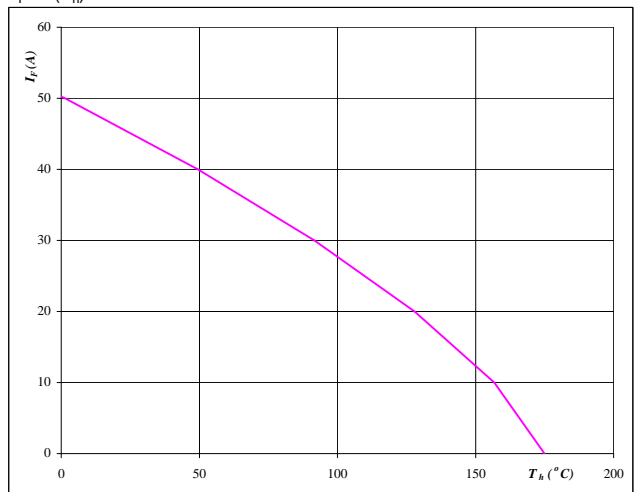


At  $T_j = 175 \text{ }^\circ C$

Figure 4 BOOST INV. DIODE

Forward current as a function of heatsink temperature

$I_F = f(T_h)$



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



# Thermistor

Figure 1 Thermistor

Typical NTC characteristic as a function of temperature

$$R_T = f(T)$$

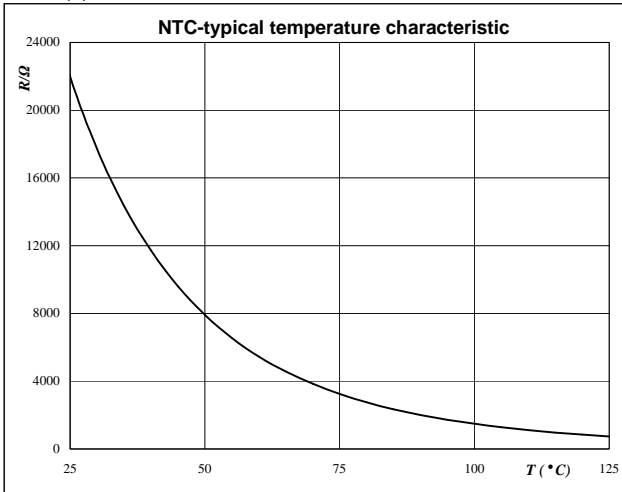


Figure 2 Thermistor

Typical NTC resistance values

$$R(T) = R_{25} \cdot e^{\left( B_{25/100} \left( \frac{1}{T} - \frac{1}{T_{25}} \right) \right)} \quad [\Omega]$$

T [°C]	R <sub>nom</sub> [Ω]	R <sub>min</sub> [Ω]	R <sub>max</sub> [Ω]	ΔR/R [%]
-55	2089434,5	1506495,4	2672373,6	27,9
0	71804,2	59724,4	83884	16,8
10	43780,4	37094,4	50466,5	15,3
20	27484,6	23684,6	31284,7	13,8
25	22000	19109,3	24890,7	13,1
30	17723,3	15512,2	19934,4	12,5
60	5467,9	4980,6	5955,1	8,9
70	3848,6	3546	4151,1	7,9
80	2757,7	2568,2	2947,1	6,9
90	2008,9	1889,7	2128,2	5,9
<b>100</b>	<b>1486,1</b>	<b>1411,8</b>	<b>1560,4</b>	<b>5</b>
150	400,2	364,8	435,7	8,8



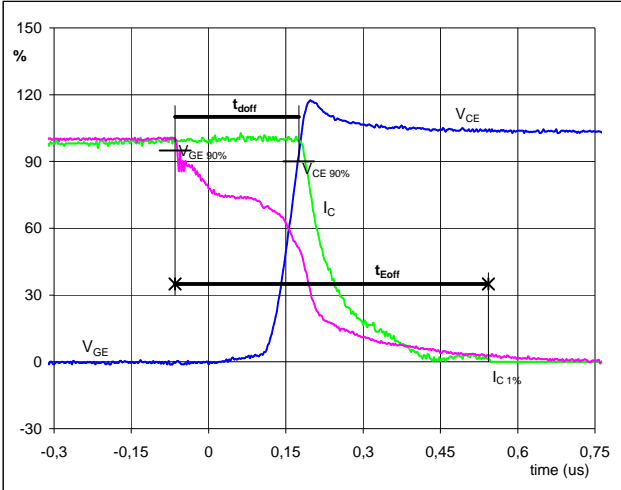
### Switching Definitions Boost IGBT

General conditions

$T_j$	=	150 °C
$R_{gon}$	=	8 Ω
$R_{goff}$	=	8 Ω

Figure 1 BOOST IGBT

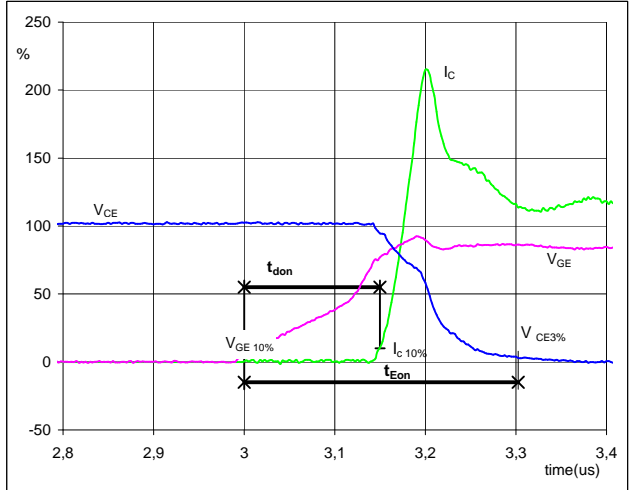
Turn-off Switching Waveforms & definition of  $t_{doff}$ ,  $t_{Eoff}$   
 ( $t_{Eoff}$  = integrating time for  $E_{off}$ )



$V_{GE} (0\%) =$	-15	V
$V_{GE} (100\%) =$	15	V
$V_C (100\%) =$	300	V
$I_C (100\%) =$	74	A
$t_{doff} =$	0,23	μS
$t_{Eoff} =$	0,61	μS

Figure 2 BOOST IGBT

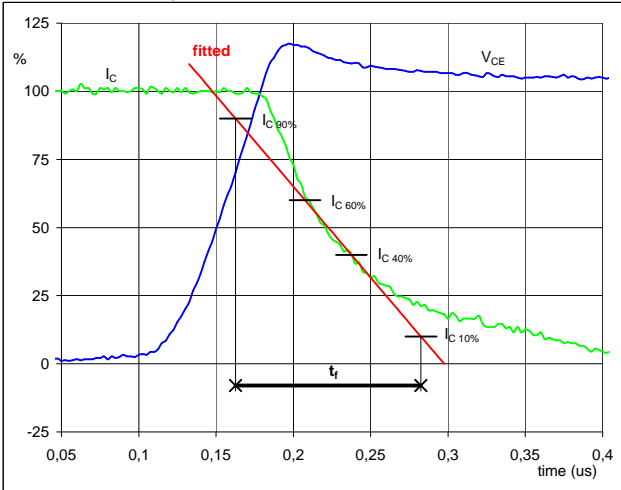
Turn-on Switching Waveforms & definition of  $t_{don}$ ,  $t_{Eon}$   
 ( $t_{Eon}$  = integrating time for  $E_{on}$ )



$V_{GE} (0\%) =$	-15	V
$V_{GE} (100\%) =$	15	V
$V_C (100\%) =$	300	V
$I_C (100\%) =$	74	A
$t_{don} =$	0,15	μS
$t_{Eon} =$	0,30	μS

Figure 3 BOOST IGBT

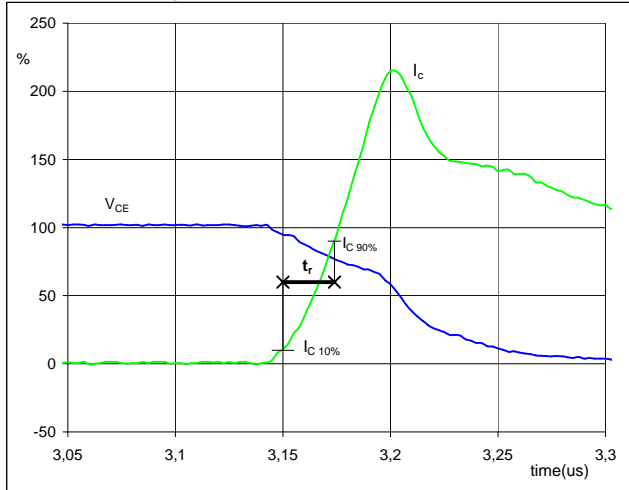
Turn-off Switching Waveforms & definition of  $t_f$



$V_C (100\%) =$	300	V
$I_C (100\%) =$	74	A
$t_f =$	0,11	μS

Figure 4 BOOST IGBT

Turn-on Switching Waveforms & definition of  $t_r$



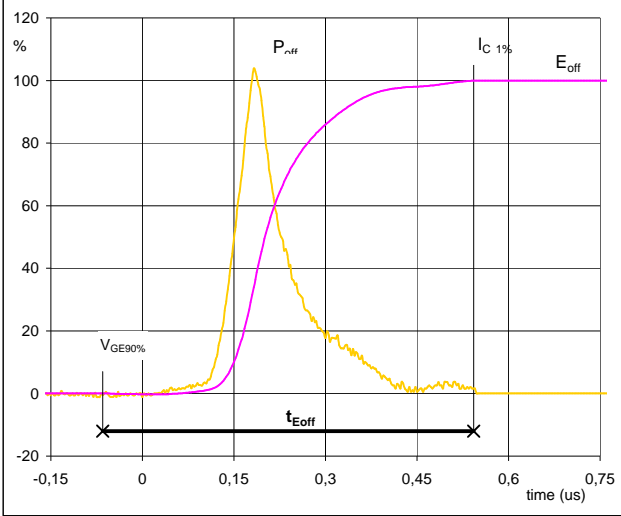
$V_C (100\%) =$	300	V
$I_C (100\%) =$	74	A
$t_r =$	0,02	μS



### Switching Definitions Boost IGBT

Figure 5 BOOST IGBT

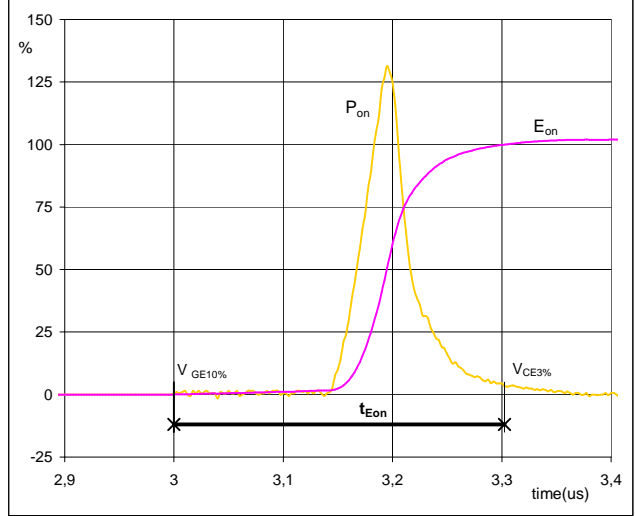
Turn-off Switching Waveforms & definition of  $t_{Eoff}$



$P_{off} (100\%) =$	22,30	kW
$E_{off} (100\%) =$	2,41	mJ
$t_{Eoff} =$	0,61	$\mu s$

Figure 6 BOOST IGBT

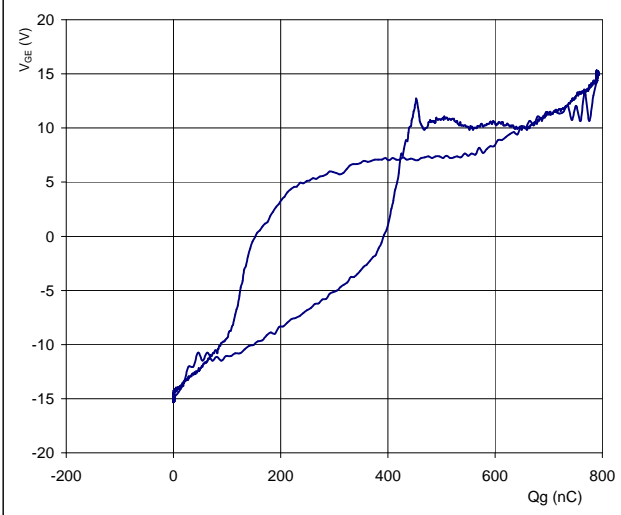
Turn-on Switching Waveforms & definition of  $t_{Eon}$



$P_{on} (100\%) =$	22,30	kW
$E_{on} (100\%) =$	1,50	mJ
$t_{Eon} =$	0,30	$\mu s$

Figure 7 BOOST IGBT

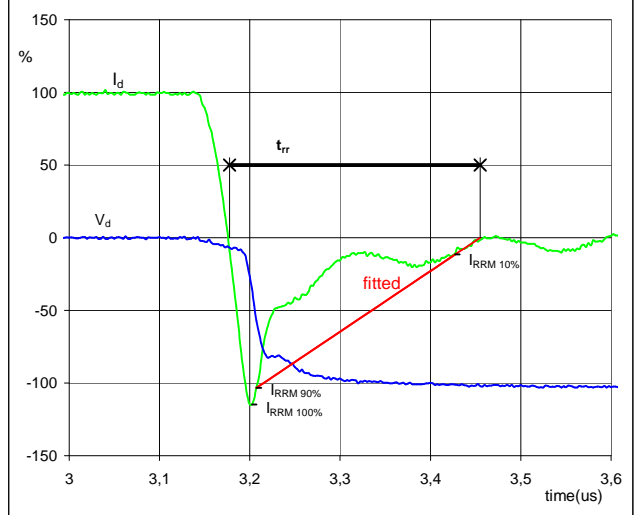
Gate voltage vs Gate charge (measured)



$V_{GEoff} =$	-15	V
$V_{GEon} =$	15	V
$V_C (100\%) =$	300	V
$I_C (100\%) =$	74	A
$Q_g =$	794,04	nC

Figure 8 BOOST FWD

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



$V_d (100\%) =$	300	V
$I_d (100\%) =$	74	A
$I_{RRM} (100\%) =$	-86	A
$t_{rr} =$	0,15	$\mu s$

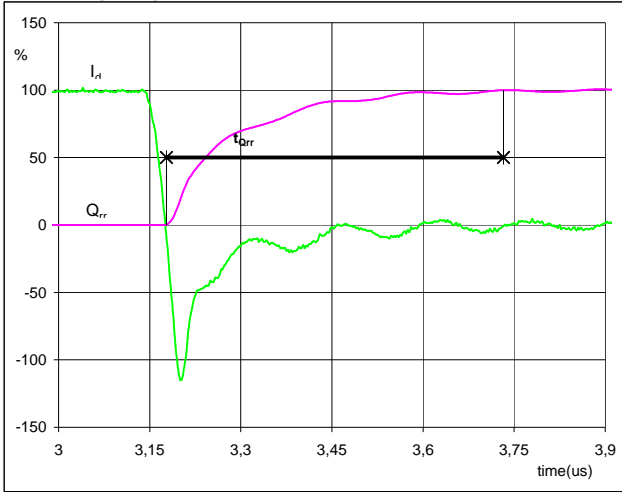


### Switching Definitions Boost IGBT

Figure 9 BOOST FWD

Turn-on Switching Waveforms & definition of  $t_{Qrr}$

( $t_{Qrr}$  = integrating time for  $Q_{rr}$ )

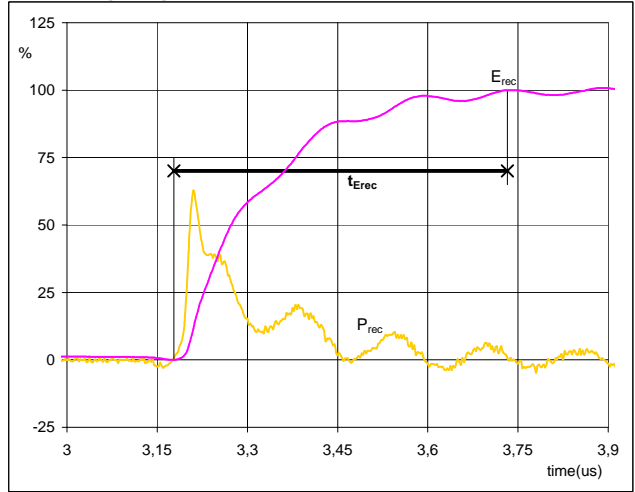


$I_d$ (100%) =	74	A
$Q_{rr}$ (100%) =	6,19	$\mu C$
$t_{Qrr}$ =	0,55	$\mu s$

Figure 10 BOOST FWD

Turn-on Switching Waveforms & definition of  $t_{Erec}$

( $t_{Erec}$  = integrating time for  $E_{rec}$ )



$P_{rec}$ (100%) =	22,30	kW
$E_{rec}$ (100%) =	1,33	mJ
$t_{Erec}$ =	0,55	$\mu s$

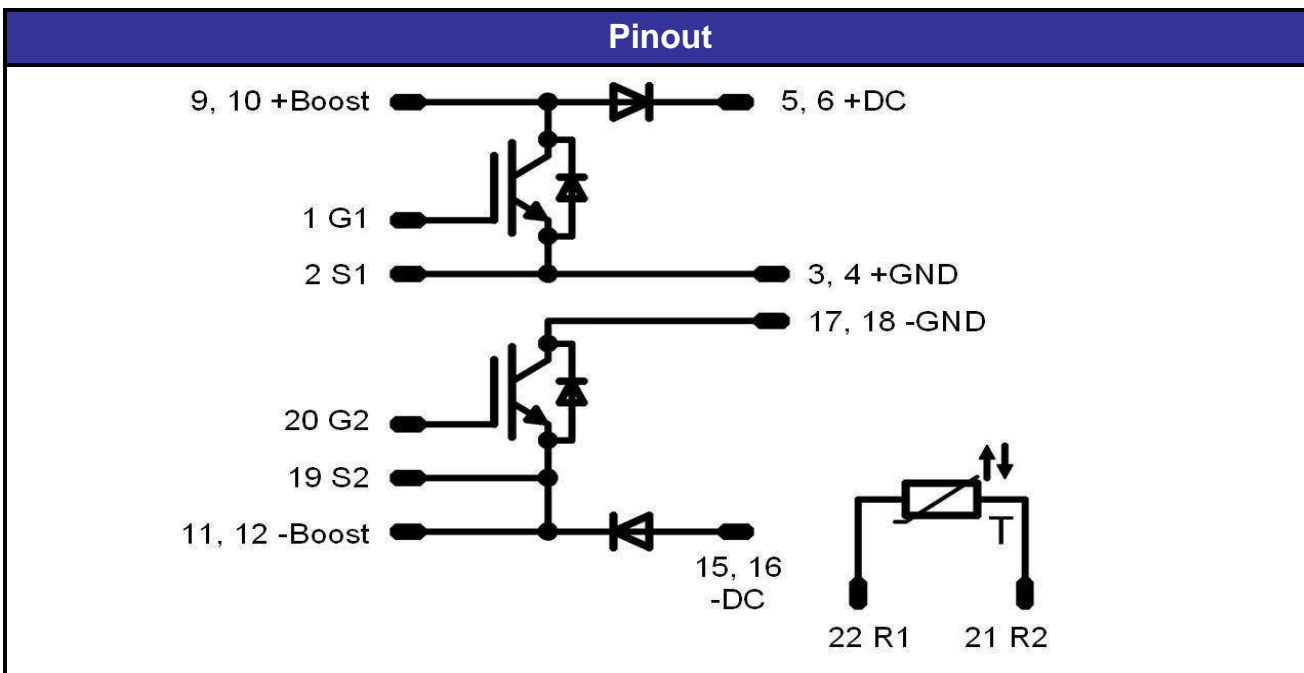


### Ordering Code and Marking - Outline - Pinout

Ordering Code & Marking			
Version	Ordering Code	in DataMatrix as	in packaging barcode as
Standard in flow0 12mm housing	10-FZ06NBA075SA-P916L33	P916L33	P916L33

### Outline

Pin table		
Pin	X	Y
1	33,6	0
2	30,6	0
3	23,65	0
4	20,65	0
5	14,9	0
6	11,9	0
7	3	0
8	0	0
9	0	7,8
10	3	7,8
11	0	14,8
12	3	14,8
13	0	22,6
14	3	22,6
15	11,9	22,6
16	14,9	22,6
17	20,65	22,6
18	23,65	22,6
19	30,6	22,6
20	33,6	22,6
21	33,6	14,55
22	33,6	8,05





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Datasheet Status	Product Status	Definition
Target	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice. The data contained is exclusively intended for technically trained staff.
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