

*flow*PACK 2

600 V/100 A

Features

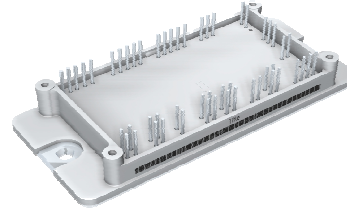
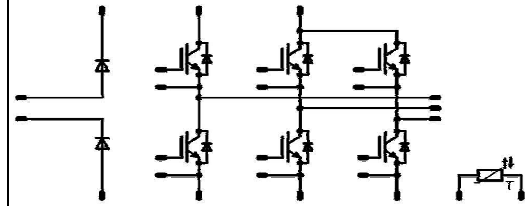
- Inverter, blocking diodes
- Built-in thermistor

Target Applications

- Power Regeneration

Types

- 30-F206R6A100SB-M444E
- 30-F206R6A100SB01-M444E10

flow 2 housing

Schematic


Maximum Ratings

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

Parameter	Symbol	Condition	Value	Unit
D7a,b-D8a,b				
Repetitive peak reverse voltage	V_{RRM}		1600	V
DC forward current	I_{FAV}	$T_j=T_{jmax}$ $T_h=80^\circ\text{C}$ $T_c=80^\circ\text{C}$	154 208	A
Surge forward current	I_{FSM}	$t_p=10\text{ms}$ $T_j=25^\circ\text{C}$	1270	A
I ² t-value	I^2t		2400	A ² s
Power dissipation per Diode	P_{tot}	$T_j=T_{jmax}$ $T_h=80^\circ\text{C}$ $T_c=80^\circ\text{C}$	189 287	W
Maximum Junction Temperature	T_{jmax}		150	°C

T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b

Collector-emitter break down voltage	V_{CE}		600	V
DC collector current	I_C	$T_j=T_{jmax}$ $T_h=80^\circ\text{C}$ $T_c=80^\circ\text{C}$	111 120	A
Pulsed collector current	I_{Cpulse}	t_p limited by T_{jmax}	300	A
Turn off safe operating area		$V_{CE} \leq 1200\text{V}$, $T_j \leq T_{op max}$	300	A
Power dissipation per IGBT	P_{tot}	$T_j=T_{jmax}$ $T_h=80^\circ\text{C}$ $T_c=80^\circ\text{C}$	209 317	W
Gate-emitter peak voltage	V_{GE}		± 20	V
Short circuit ratings	t_{SC} V_{CC}	$T_j \leq 150^\circ\text{C}$ $V_{GE}=15\text{V}$	5 400	μs V
Maximum Junction Temperature	T_{jmax}		175	°C

Maximum Ratings

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

Parameter	Symbol	Condition	Value	Unit	
D1,D2,D3,D4,D5,D6					
Peak Repetitive Reverse Voltage	V_{RRM}		600	V	
DC forward current	I_F	$T_j=T_{jmax}$	$T_h=80^{\circ}\text{C}$	59	A
			$T_c=80^{\circ}\text{C}$	60	
Repetitive peak forward current	I_{FRM}	t_p limited by T_{jmax}	100	A	
Power dissipation per Diode	P_{tot}	$T_j=T_{jmax}$	$T_h=80^{\circ}\text{C}$	94	W
			$T_c=80^{\circ}\text{C}$	143	
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	V_{is}	$t=2\text{s}$ DC voltage	4000	V
Creepage distance			min 12,7	mm
Clearance			min 12,7	mm
Comparative tracking index	CTI		>200	

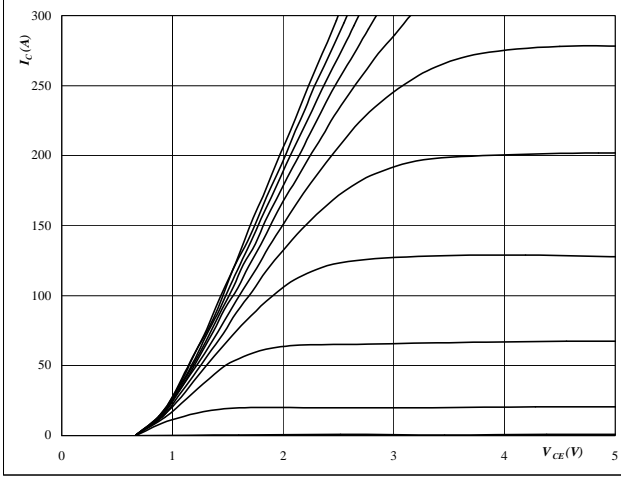
Characteristic Values

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		
D7a,b-D8a,b										
Forward voltage	V_F			100	$T_j=25^\circ C$ $T_j=125^\circ C$	1,12 1,07	1,21			V
Threshold voltage (for power loss calc. only)	V_{to}			100	$T_j=25^\circ C$ $T_j=125^\circ C$	0,89 0,76				V
Slope resistance (for power loss calc. only)	r_t			100	$T_j=25^\circ C$ $T_j=125^\circ C$	2 3				m Ω
Reverse current	I_r		1600		$T_j=25^\circ C$ $T_j=125^\circ C$		0,05			mA
Thermal resistance chip to heatsink per chip	R_{thJH}	Phase-Change Material					0,37			K/W
Thermal resistance chip to heatsink per chip	R_{thJC}						0,24			K/W
T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b										
Gate emitter threshold voltage	$V_{GE(th)}$	$V_{CE}=V_{GE}$		0,0016	$T_j=25^\circ C$ $T_j=150^\circ C$	5 5,8	6,5			V
Collector-emitter saturation voltage	$V_{CE(sat)}$		15		$T_j=25^\circ C$ $T_j=150^\circ C$	1,05 1,48 1,73		1,85		V
Collector-emitter cut-off current incl. Diode	I_{CES}		0	600	$T_j=25^\circ C$ $T_j=150^\circ C$			0,006		mA
Gate-emitter leakage current	I_{GES}		20	0	$T_j=25^\circ C$ $T_j=150^\circ C$			1200		nA
Integrated Gate resistor	R_{gint}						none			Ω
Turn-on delay time	$t_{d(on)}$				$T_j=25^\circ C$ $T_j=150^\circ C$	115 116				ns
Rise time	t_r				$T_j=25^\circ C$ $T_j=150^\circ C$	22 25				
Turn-off delay time	$t_{d(off)}$	Rgoff=4 Ω Rgon=4 Ω	± 15	300	100	$T_j=25^\circ C$ $T_j=150^\circ C$	172 198			
Fall time	t_f				$T_j=25^\circ C$ $T_j=150^\circ C$	72 104				
Turn-on energy loss per pulse	E_{on}				$T_j=25^\circ C$ $T_j=150^\circ C$	0,69 1,12				mWs
Turn-off energy loss per pulse	E_{off}				$T_j=25^\circ C$ $T_j=150^\circ C$	2,77 4,01				
Input capacitance	C_{ies}						6280			pF
Output capacitance	C_{oss}	f=1MHz	0	25	$T_j=25^\circ C$		400			
Reverse transfer capacitance	C_{rss}						186			
Gate charge	Q_{Gate}		± 15	480	100	$T_j=25^\circ C$		620		nC
Thermal resistance chip to heatsink per chip	R_{thJH}	Phase-Change Material					0,45			K/W
Thermal resistance chip to case per chip	R_{thJC}						0,3			
D1,D2,D3,D4,D5,D6										
Diode forward voltage	V_F			50	$T_j=25^\circ C$ $T_j=150^\circ C$	1,1 1,63 1,52	2,2			V
Peak reverse recovery current	I_{RRM}				$T_j=25^\circ C$ $T_j=150^\circ C$	70,04 86,7				A
Reverse recovery time	t_{rr}				$T_j=25^\circ C$ $T_j=150^\circ C$	117,3 269,7				ns
Reverse recovered charge	Q_{rr}	Rgon=4 Ω	± 15	300	100	$T_j=25^\circ C$ $T_j=150^\circ C$	3,48 7,48			μC
Peak rate of fall of recovery current	$di(rec)max/dt$				$T_j=25^\circ C$ $T_j=150^\circ C$	5512 2501				A/ μs
Reverse recovered energy	E_{rec}				$T_j=25^\circ C$ $T_j=150^\circ C$	0,88 1,91				mWs
Thermal resistance chip to heatsink per chip	R_{thJH}	Phase-Change Material					1,01			K/W
Thermal resistance chip to case per chip	R_{thJC}						0,67			
Thermistor										
Rated resistance	R				$T_j=25^\circ C$		22000			Ω
Deviation of R100	$\Delta R/R$	R100=1486 Ω			T=100 $^\circ C$	-12		14		%
Power dissipation	P				Tc=100 $^\circ C$		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. $\pm 3\%$			$T_j=25^\circ C$		3998			K
Vincotech NTC Reference					$T_j=25^\circ C$			B		

T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b/D1,D2,D3,D4,D5,D6
Figure 1 T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b IGBT

Typical output characteristics

$I_C = f(V_{CE})$

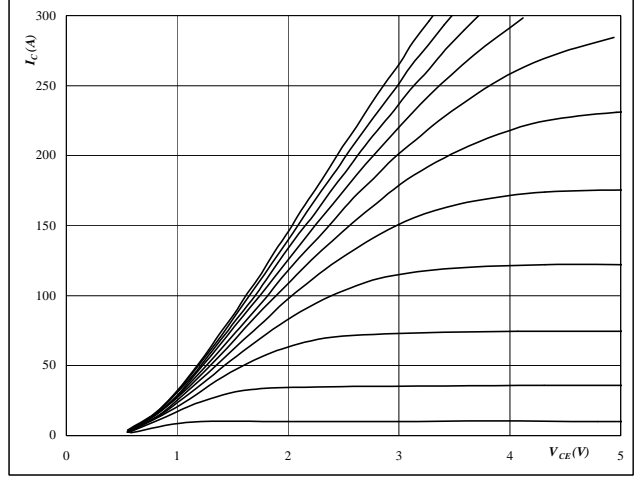


At
 $t_p = 250 \mu s$
 $T_j = 25 \text{ } ^\circ C$
 V_{GE} from 7 V to 17 V in steps of 1 V

Figure 2 T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b IGBT

Typical output characteristics

$I_C = f(V_{CE})$

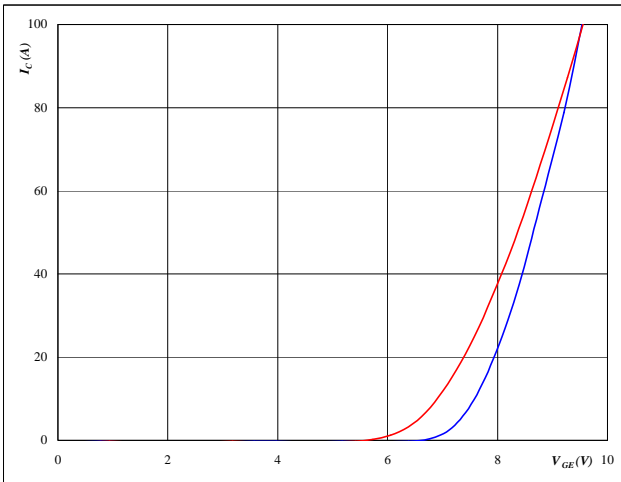


At
 $t_p = 250 \mu s$
 $T_j = 150 \text{ } ^\circ C$
 V_{GE} from 7 V to 17 V in steps of 1 V

Figure 3 T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b IGBT

Typical transfer characteristics

$I_C = f(V_{GE})$

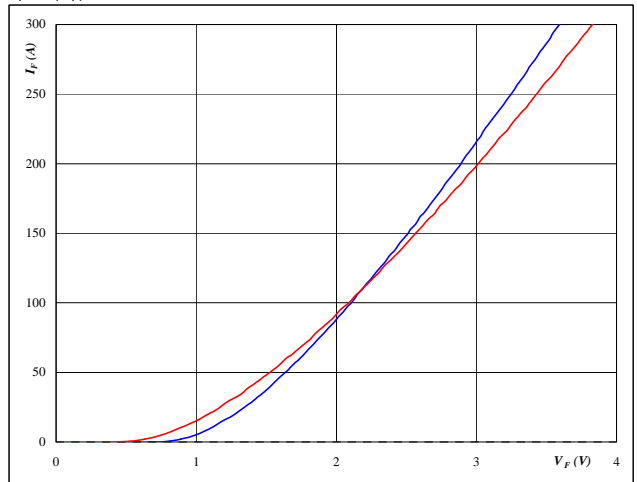


At
 $T_j = 25/150 \text{ } ^\circ C$
 $t_p = 250 \mu s$
 $V_{CE} = 10 \text{ V}$

Figure 4 D1,D2,D3,D4,D5,D6 FWD

Typical diode forward current as a function of forward voltage

$I_F = f(V_F)$

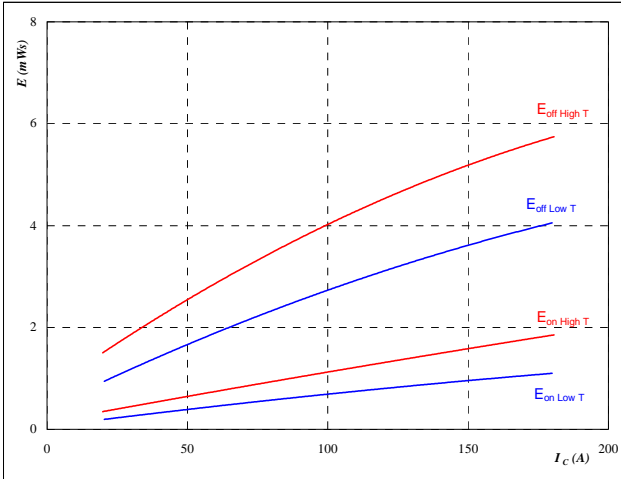


At
 $T_j = 25/150 \text{ } ^\circ C$
 $t_p = 250 \mu s$

T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b/D1,D2,D3,D4,D5,D6
Figure 5 T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b IGBT

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

$E = f(I_C)$

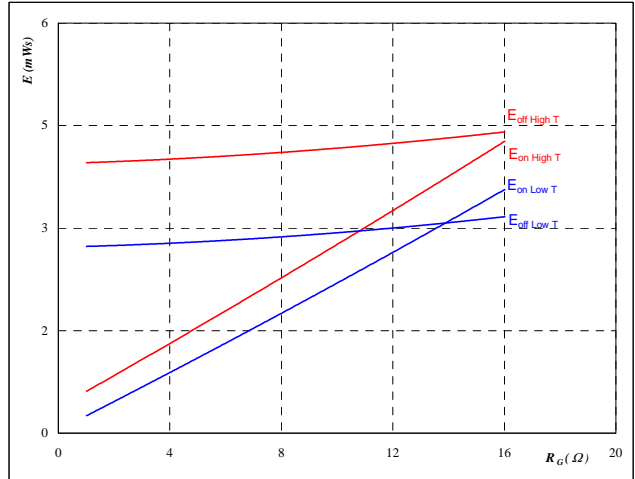


With an inductive load at

 $T_J = 25/150 \text{ } ^\circ\text{C}$
 $V_{CE} = 300 \text{ V}$
 $V_{GE} = \pm 15 \text{ V}$
 $R_{gon} = 4 \text{ } \Omega$
 $R_{goff} = 4 \text{ } \Omega$
Figure 6 T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b IGBT

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

$E = f(R_G)$

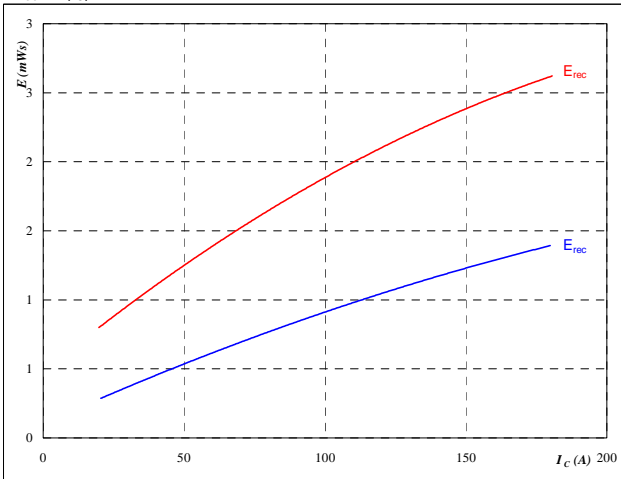


With an inductive load at

 $T_J = 25/150 \text{ } ^\circ\text{C}$
 $V_{CE} = 300 \text{ V}$
 $V_{GE} = \pm 15 \text{ V}$
 $I_C = 100 \text{ A}$
Figure 7 D1,D2,D3,D4,D5,D6 FWD

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

$E_{rec} = f(I_C)$

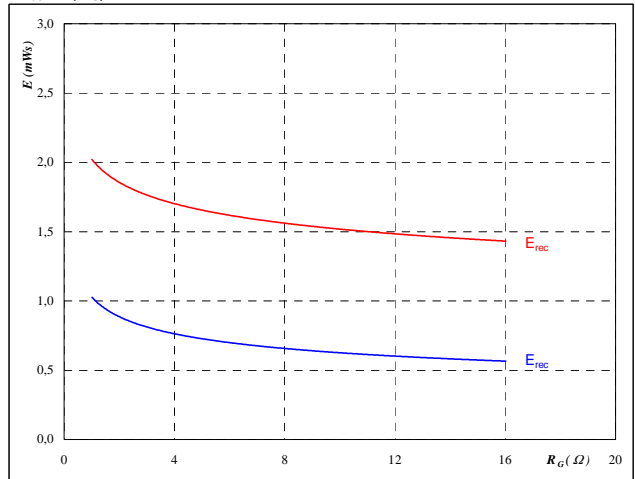


With an inductive load at

 $T_J = 25/150 \text{ } ^\circ\text{C}$
 $V_{CE} = 300 \text{ V}$
 $V_{GE} = \pm 15 \text{ V}$
 $R_{gon} = 4 \text{ } \Omega$
Figure 8 D1,D2,D3,D4,D5,D6 FWD

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

$E_{rec} = f(R_G)$



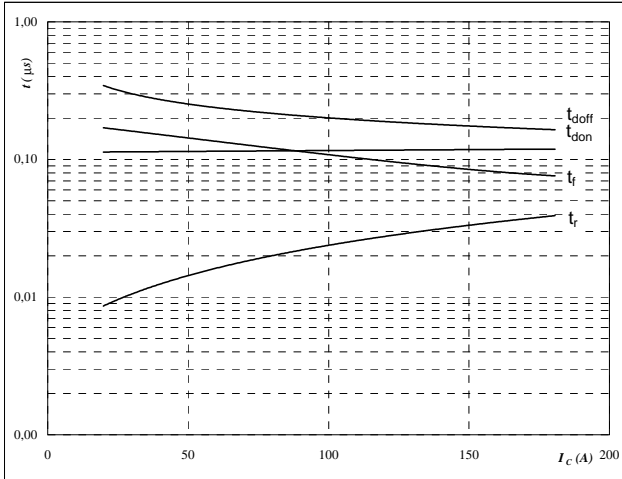
With an inductive load at

 $T_J = 25/150 \text{ } ^\circ\text{C}$
 $V_{CE} = 300 \text{ V}$
 $V_{GE} = \pm 15 \text{ V}$
 $I_C = 100 \text{ A}$

T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b/D1,D2,D3,D4,D5,D6
Figure 9 T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b IGBT

Typical switching times as a function of collector current

$t = f(I_C)$



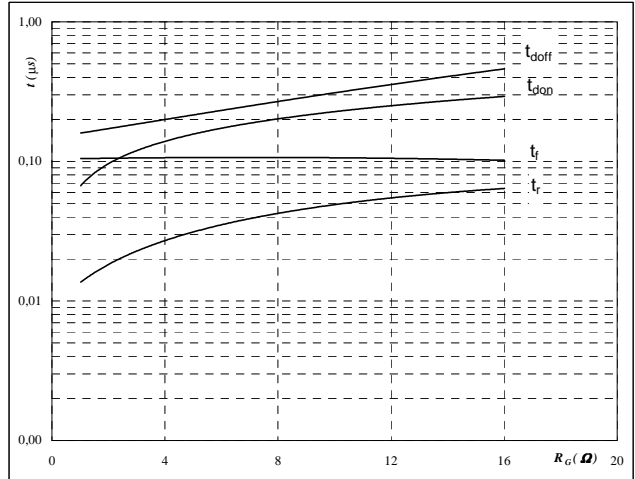
With an inductive load at

$T_J =$	150	°C
$V_{CE} =$	300	V
$V_{GE} =$	±15	V
$R_{gon} =$	4	Ω
$R_{goff} =$	4	Ω

Figure 10 T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b IGBT

Typical switching times as a function of gate resistor

$t = f(R_G)$



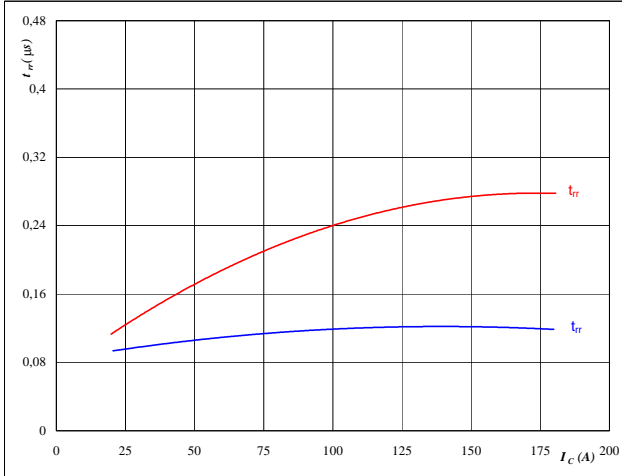
With an inductive load at

$T_J =$	150	°C
$V_{CE} =$	300	V
$V_{GE} =$	±15	V
$I_C =$	100	A

Figure 11 D1,D2,D3,D4,D5,D6 FWD

Typical reverse recovery time as a function of collector current

$t_{rr} = f(I_C)$

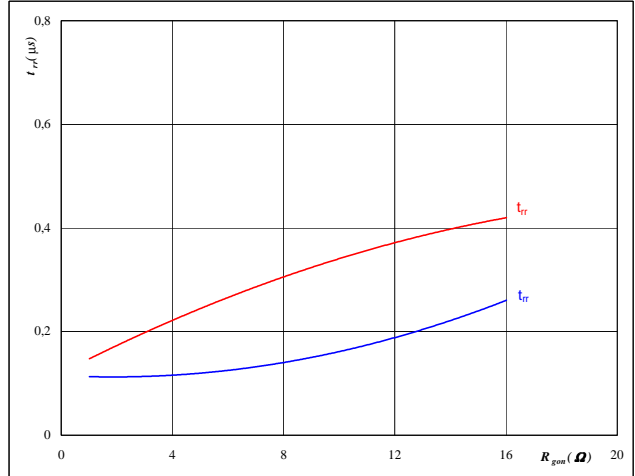

At

$T_J =$	25/150	°C
$V_{CE} =$	300	V
$V_{GE} =$	±15	V
$R_{gon} =$	4	Ω

Figure 12 D1,D2,D3,D4,D5,D6 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
$I_F =$	100	A
$V_{GE} =$	±15	V

T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b/D1,D2,D3,D4,D5,D6
Figure 13 D1,D2,D3,D4,D5,D6 FWD

Typical reverse recovery charge as a function of collector current

$Q_{rr} = f(I_C)$

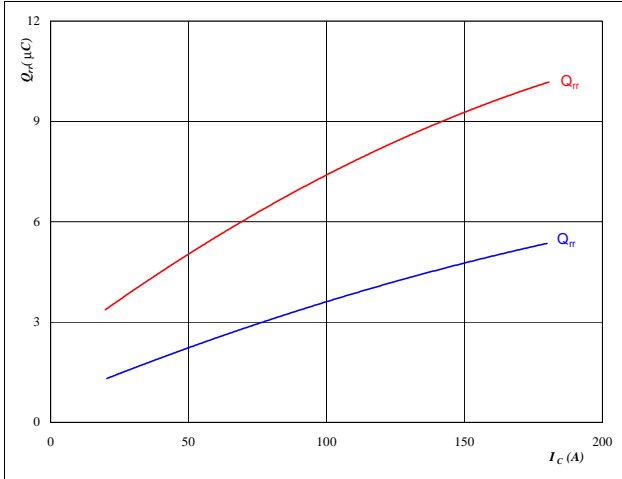

At
 $T_j = 25/150$ °C
 $V_{CE} = 300$ V
 $V_{GE} = \pm 15$ V
 $R_{gon} = 4$ Ω

Figure 14 D1,D2,D3,D4,D5,D6 FWD

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

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

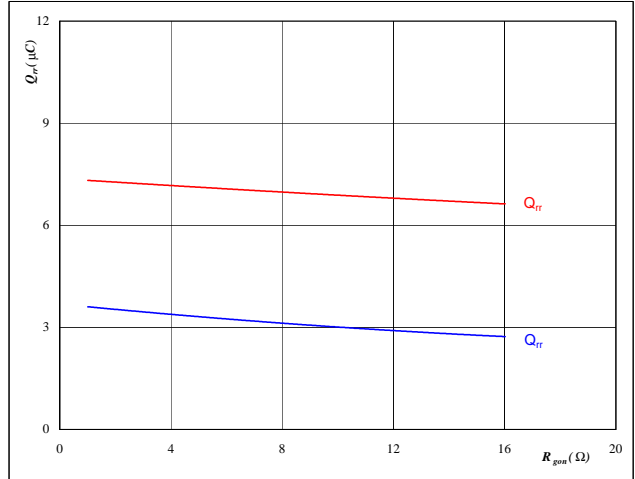

At
 $T_j = 25/150$ °C
 $V_R = 300$ V
 $I_F = 100$ A
 $V_{GE} = \pm 15$ V

Figure 15 D1,D2,D3,D4,D5,D6 FWD

Typical reverse recovery current as a function of collector current

$I_{RRM} = f(I_C)$

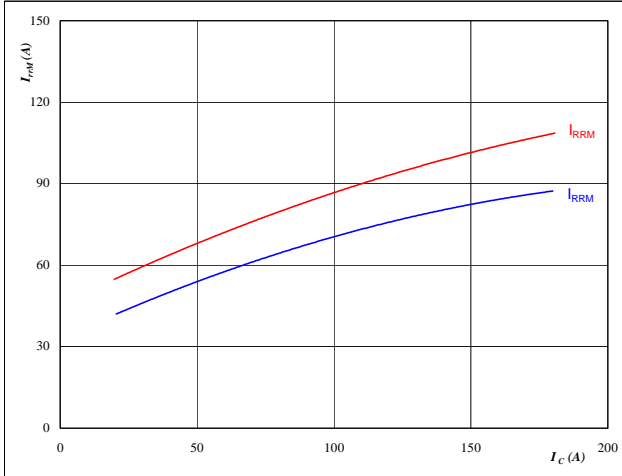
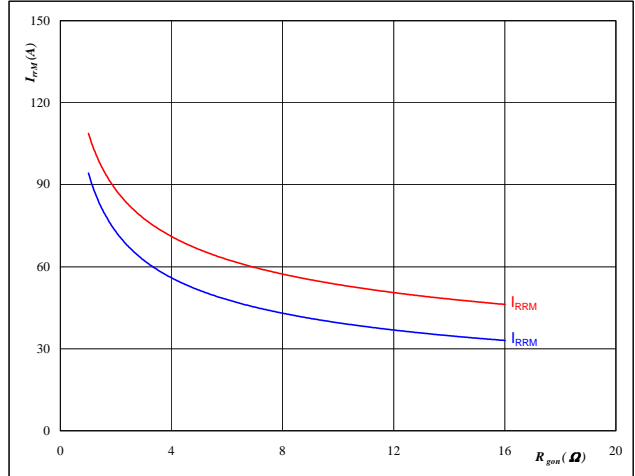

At
 $T_j = 25/150$ °C
 $V_{CE} = 300$ V
 $V_{GE} = \pm 15$ V
 $R_{gon} = 4$ Ω

Figure 16 D1,D2,D3,D4,D5,D6 FWD

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

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

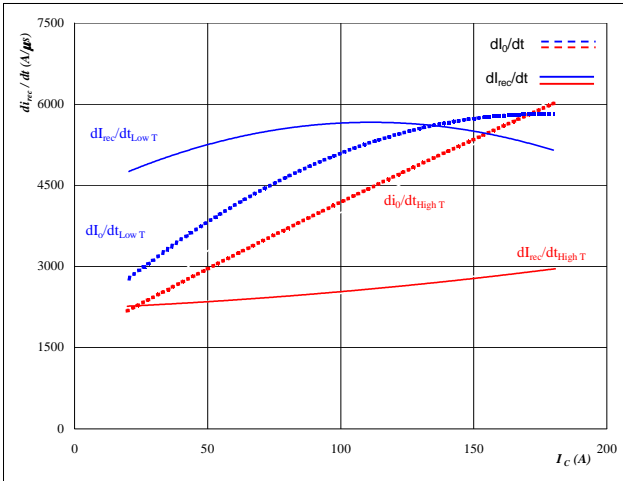

At
 $T_j = 25/150$ °C
 $V_R = 300$ V
 $I_F = 100$ A
 $V_{GE} = \pm 15$ V

T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b/D1,D2,D3,D4,D5,D6

Figure 17 D1,D2,D3,D4,D5,D6 FWD

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

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

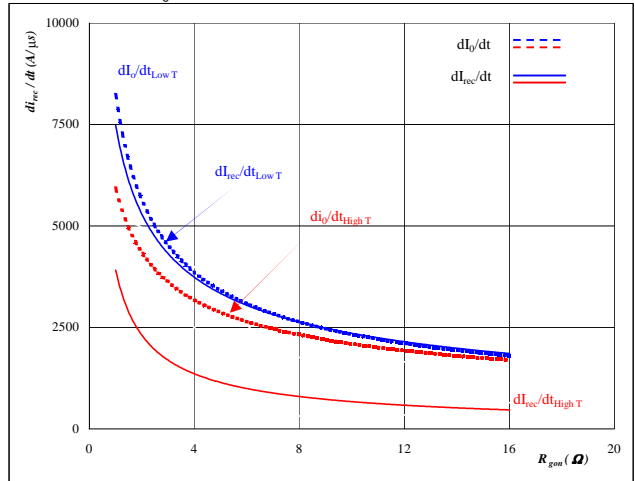


At
 $T_j = 25/150 \text{ } ^\circ\text{C}$
 $V_{CE} = 300 \text{ V}$
 $V_{GE} = \pm 15 \text{ V}$
 $R_{gon} = 4 \text{ } \Omega$

Figure 18 D1,D2,D3,D4,D5,D6 FWD

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

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

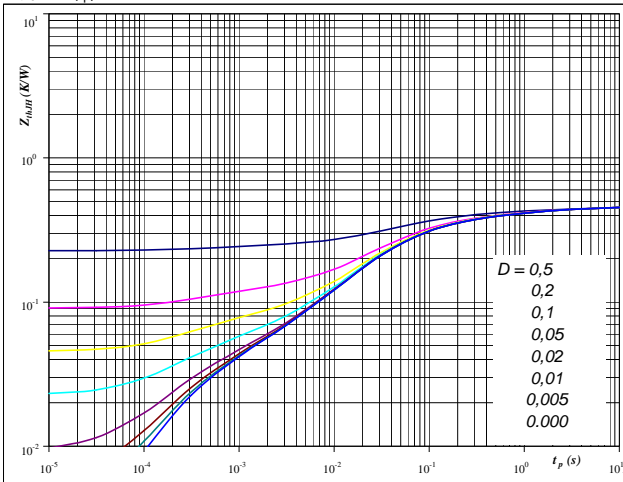


At
 $T_j = 25/150 \text{ } ^\circ\text{C}$
 $V_R = 300 \text{ V}$
 $I_F = 100 \text{ A}$
 $V_{GE} = \pm 15 \text{ V}$

Figure 19 T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b IGBT

IGBT transient thermal impedance as a function of pulse width

$Z_{thJH} = f(t_p)$



At
 $D = t_p / T$
 $R_{thJH} = 0,45 \text{ K/W}$

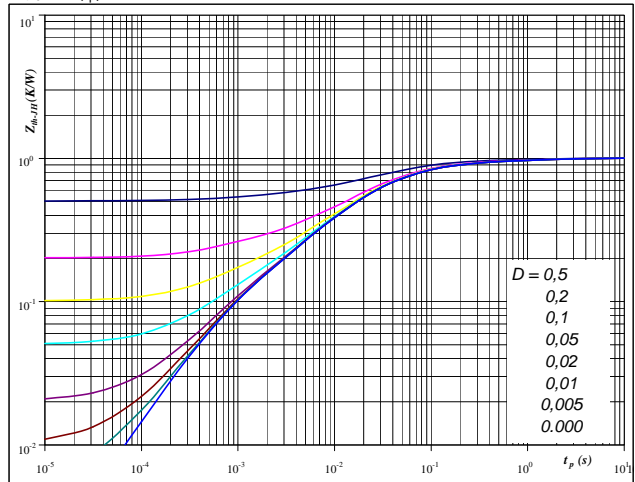
IGBT thermal model values

Phase-Change Material	R (C/W)	Tau (s)
	0,06	2,2E+00
	0,07	3,3E-01
	0,16	6,7E-02
	0,12	1,8E-02
	0,02	2,1E-03
	0,03	3,0E-04

Figure 20 D1,D2,D3,D4,D5,D6 FWD

FWD transient thermal impedance as a function of pulse width

$Z_{thJH} = f(t_p)$



At
 $D = t_p / T$
 $R_{thJH} = 1,01 \text{ K/W}$

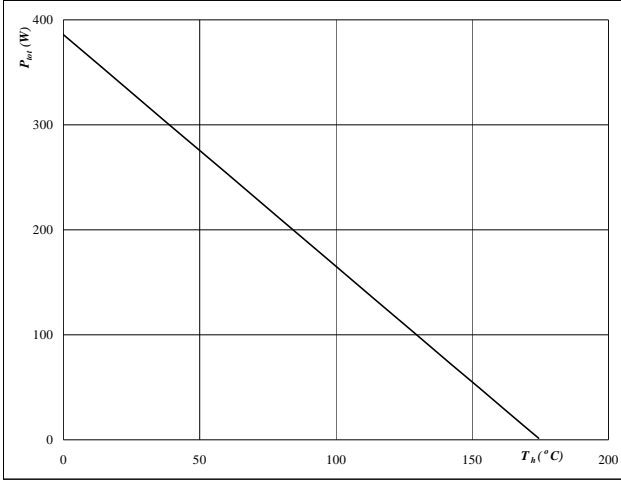
FWD thermal model values

Phase-Change Material	R (C/W)	Tau (s)
	0,04	3,5E+00
	0,08	4,7E-01
	0,28	7,2E-02
	0,41	2,0E-02
	0,13	5,0E-03
	0,07	6,9E-04

T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b/D1,D2,D3,D4,D5,D6
Figure 21 T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b IGBT

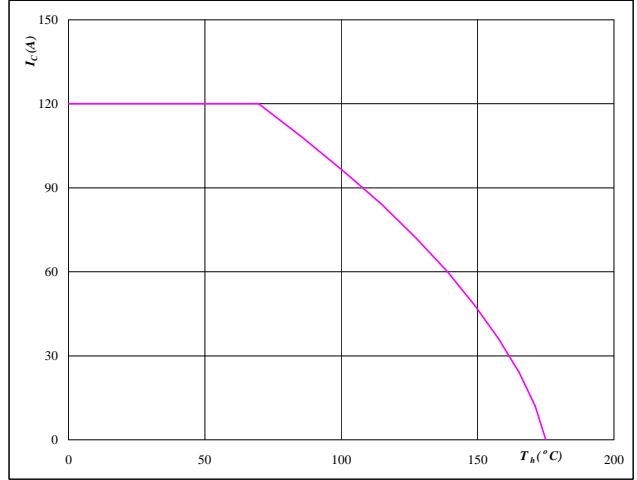
Power dissipation as a function of heatsink temperature

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


At
 $T_j = 175 \text{ } ^\circ\text{C}$
Figure 22 T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b IGBT

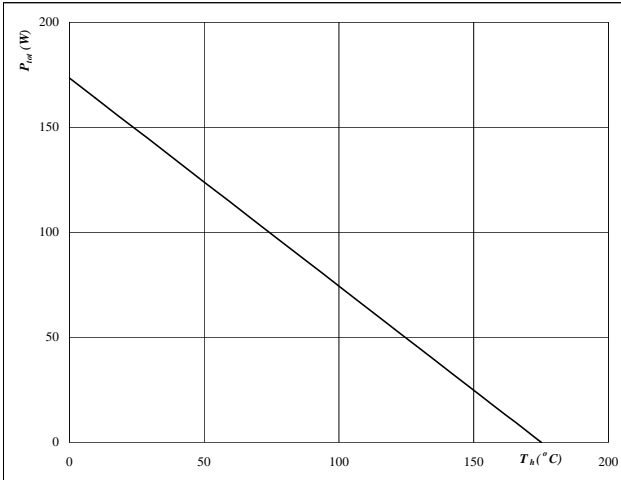
Collector current as a function of heatsink temperature

$$I_C = f(T_h)$$


At
 $T_j = 175 \text{ } ^\circ\text{C}$
 $V_{GE} = 15 \text{ V}$
Figure 23 D1,D2,D3,D4,D5,D6 FWD

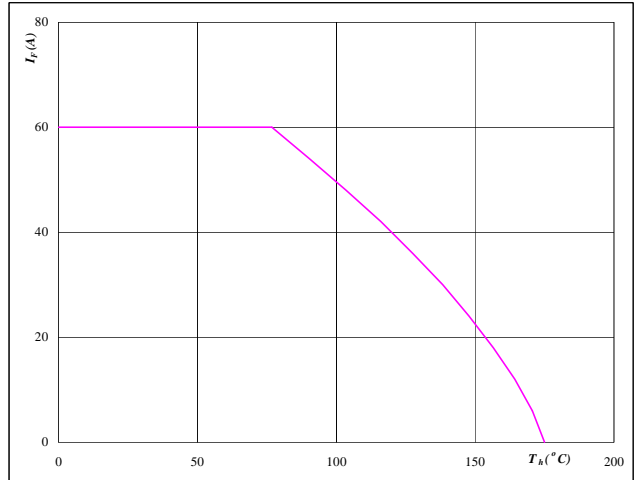
Power dissipation as a function of heatsink temperature

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


At
 $T_j = 175 \text{ } ^\circ\text{C}$
Figure 24 D1,D2,D3,D4,D5,D6 FWD

Forward current as a function of heatsink temperature

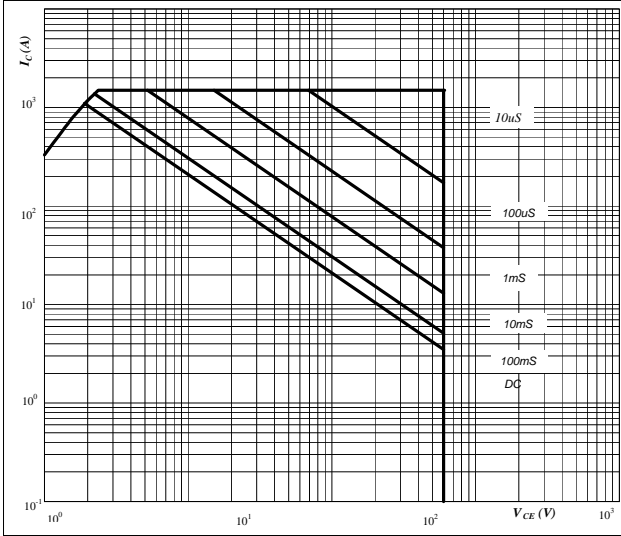
$$I_F = f(T_h)$$


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

T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b/D1,D2,D3,D4,D5,D6
Figure 25 T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b IGBT

Safe operating area as a function of collector-emitter voltage

$I_C = f(V_{CE})$

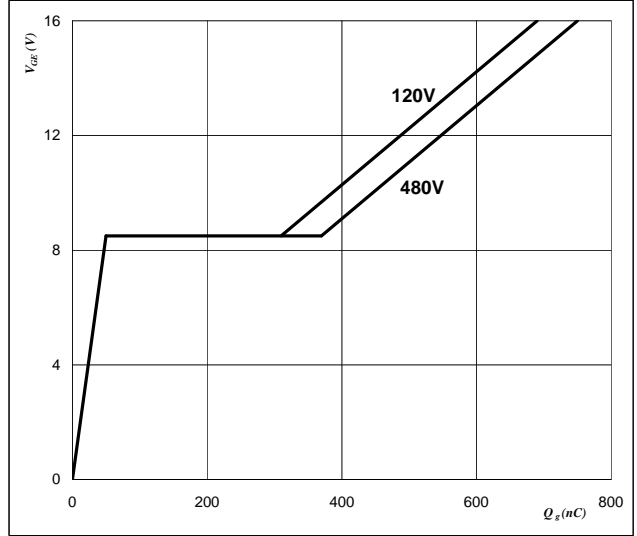


At
D = single pulse
T_h = 80 °C
V_{GE} = ±15 V
T_j = T_{jmax} °C

Figure 26 T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b IGBT

Gate voltage vs Gate charge

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

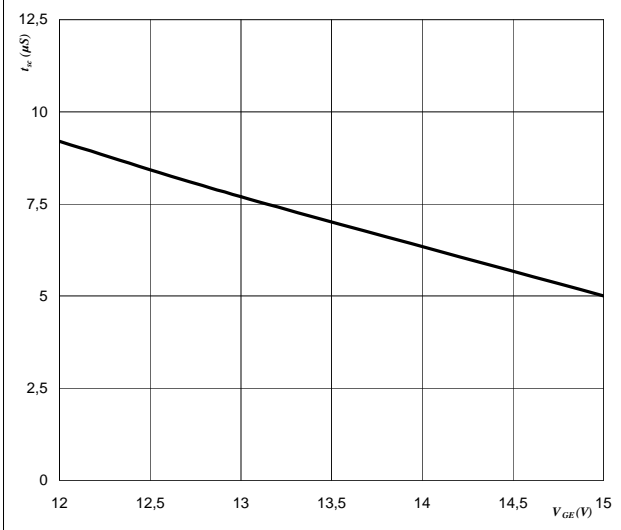


At
I_C = 100 A

Figure 27 T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b IGBT

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

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

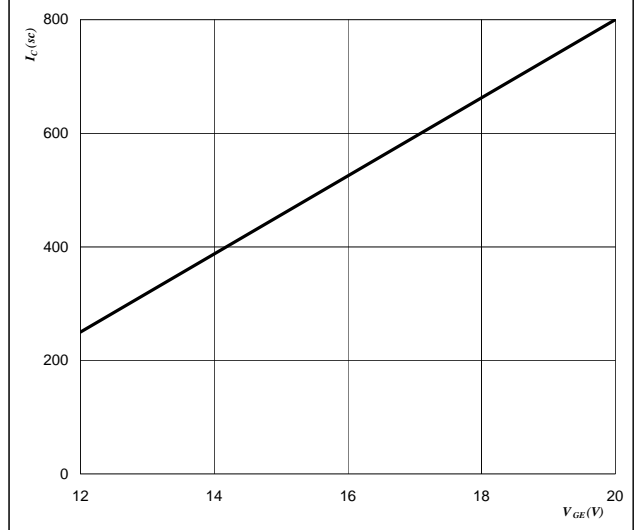


At
V_{CE} = 600 V
T_j ≤ 175 °C

Figure 28 T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b IGBT

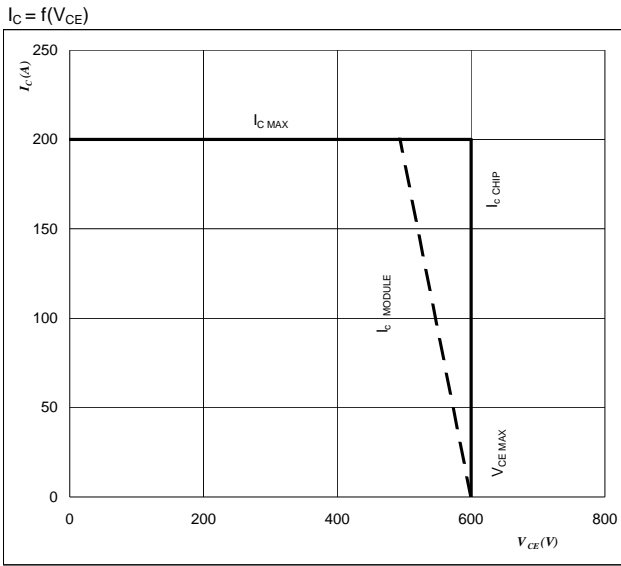
Typical short circuit collector current as a function of gate-emitter voltage

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



At
V_{CE} ≤ 600 V
T_j = 175 °C

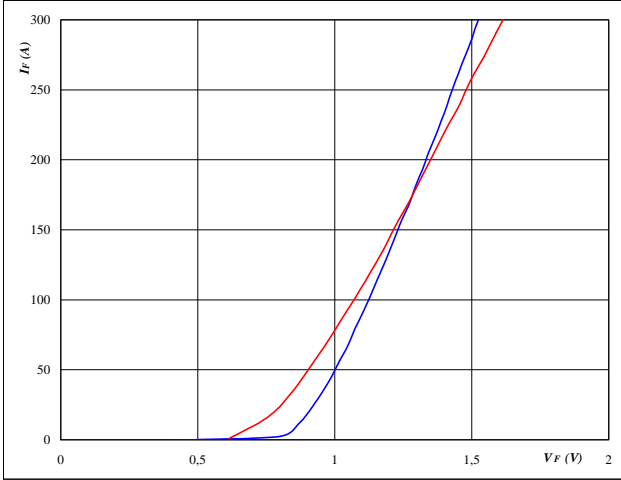
Figure 29 T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b IGBT

Reverse bias safe operating area

At
 $T_J = 150\ ^\circ\text{C}$
 $R_{gon} = 4\ \Omega$
 $R_{goff} = 4\ \Omega$

D7a-b,D8a-b
Figure 1 D7a-b,D8a-b

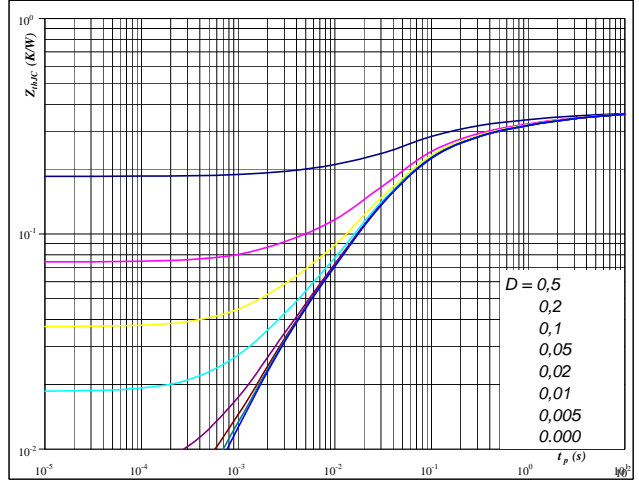
Typical diode forward current as a function of forward voltage

$$I_F = f(V_F)$$


At
 $T_j = 25/125 \text{ } ^\circ\text{C}$
 $t_p = 250 \text{ } \mu\text{s}$
Figure 2 D7a-b,D8a-b

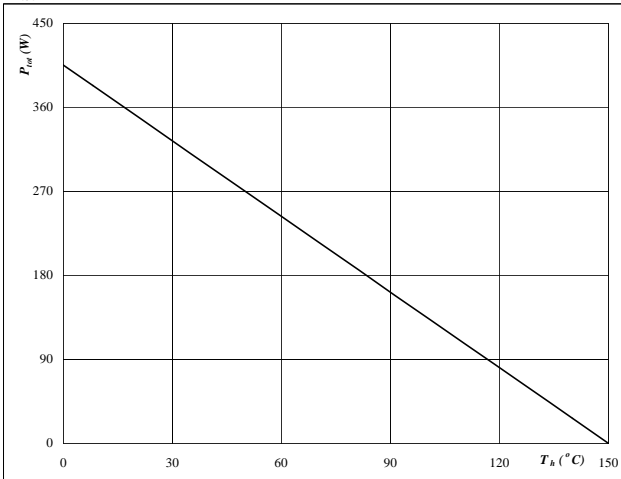
Diode transient thermal impedance as a function of pulse width

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


At
 $D = t_p / T$
 $R_{thJH} = 0,37 \text{ K/W}$
Figure 3 D7a-b,D8a-b

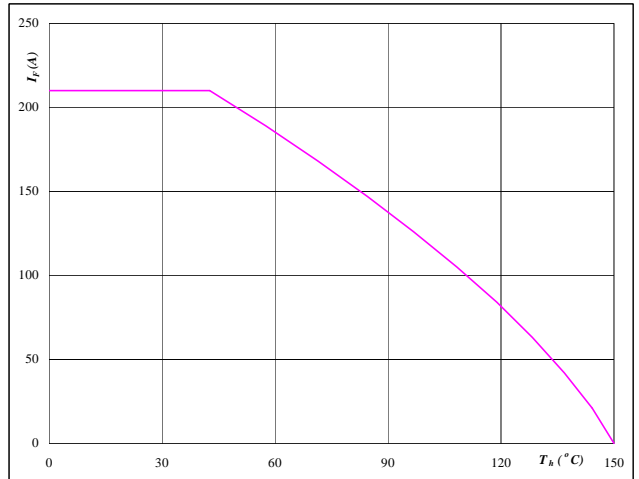
Power dissipation as a function of heatsink temperature

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


At
 $T_j = 150 \text{ } ^\circ\text{C}$
Figure 4 D7a-b,D8a-b

Forward current as a function of heatsink temperature

$$I_F = f(T_h)$$

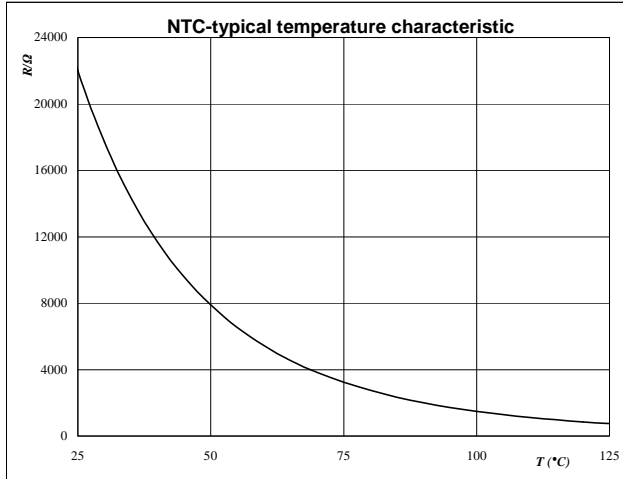

At
 $T_j = 150 \text{ } ^\circ\text{C}$

Thermistor

Figure 1 Thermistor

Typical NTC characteristic
as a function of temperature

$$R_T = f(T)$$

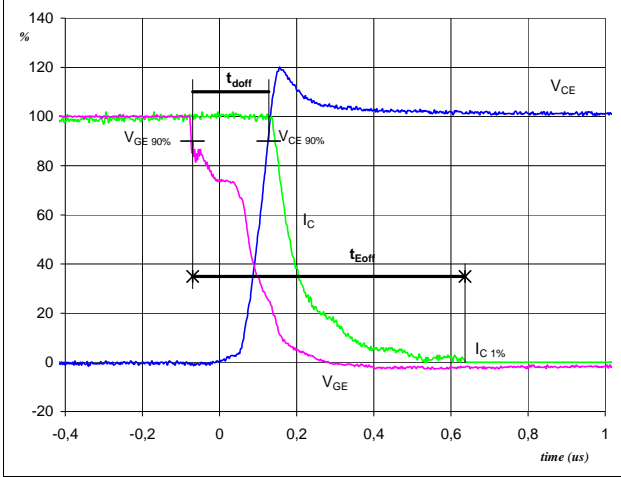


Switching Definitions Output Inverter

General conditions

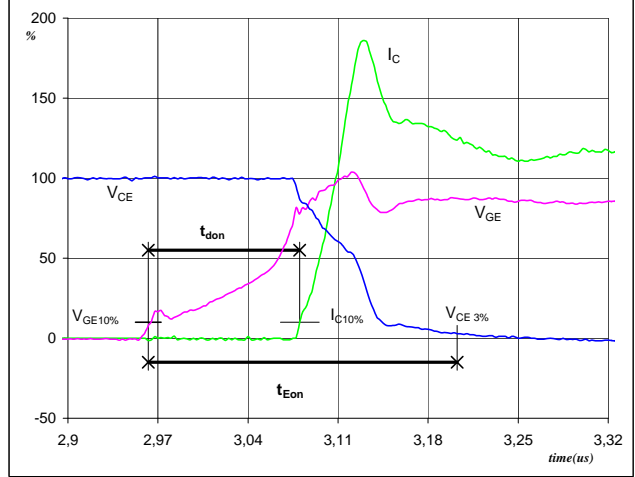
T_j	=	150 °C
R_{gon}	=	4 Ω
R_{goff}	=	4 Ω

Figure 1 T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b IGBT

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


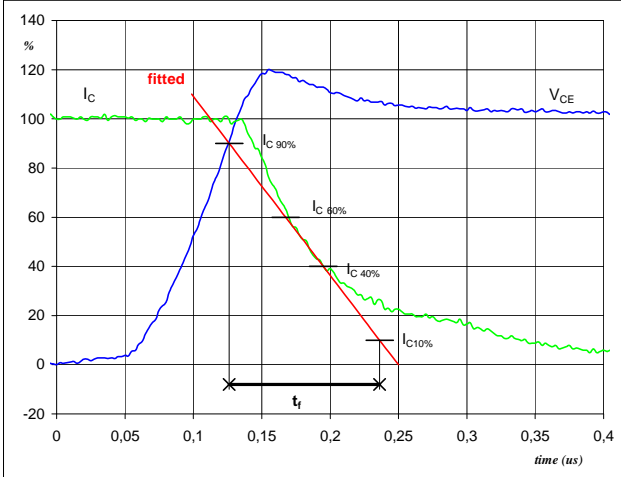
$V_{GE}(0\%) =$	-15	V
$V_{GE}(100\%) =$	15	V
$V_C(100\%) =$	300	V
$I_C(100\%) =$	100	A
$t_{doff} =$	0,20	μ s
$t_{Eoff} =$	0,71	μ s

Figure 2 T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b IGBT

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


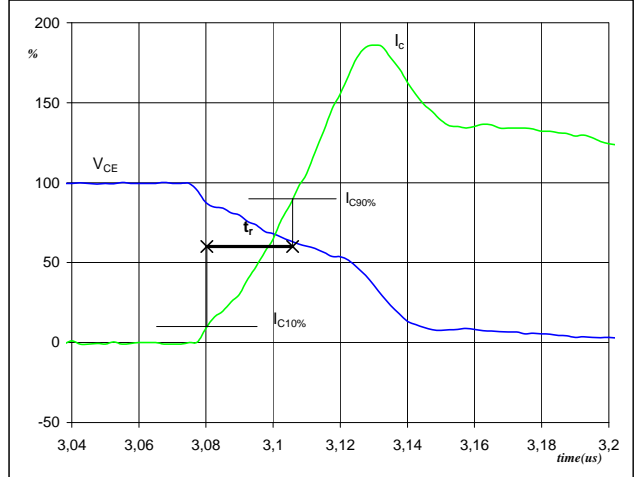
$V_{GE}(0\%) =$	-15	V
$V_{GE}(100\%) =$	15	V
$V_C(100\%) =$	300	V
$I_C(100\%) =$	100	A
$t_{don} =$	0,12	μ s
$t_{Eon} =$	0,24	μ s

Figure 3 T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b IGBT

Turn-off Switching Waveforms & definition of t_f


$V_C(100\%) =$	300	V
$I_C(100\%) =$	100	A
$t_f =$	0,10	μ s

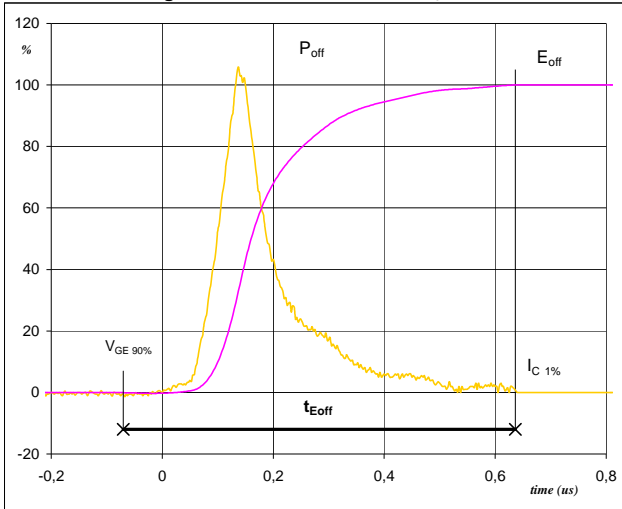
Figure 4 T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b IGBT

Turn-on Switching Waveforms & definition of t_r


$V_C(100\%) =$	300	V
$I_C(100\%) =$	100	A
$t_r =$	0,03	μ s

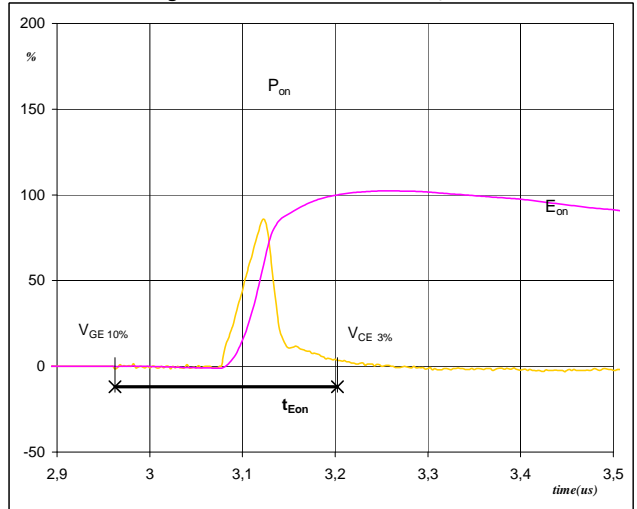
Switching Definitions Output Inverter

Figure 5 T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b IGBT

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


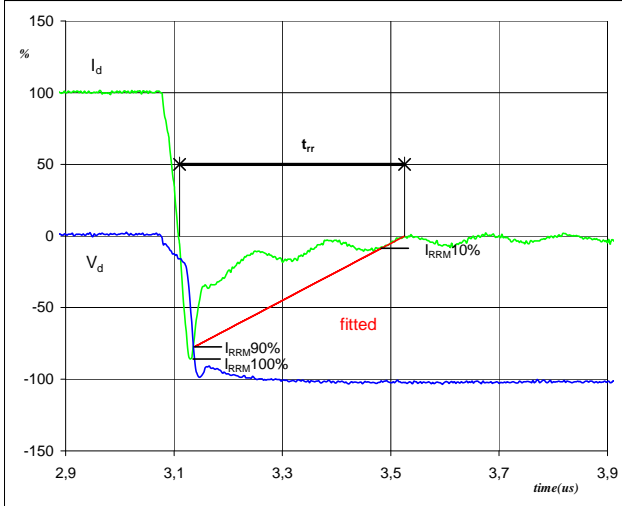
$P_{off}(100\%) = 29,91 \text{ kW}$
 $E_{off}(100\%) = 4,01 \text{ mJ}$
 $t_{Eoff} = 0,71 \text{ }\mu\text{s}$

Figure 6 T1a-b,T2a-b,T3a-b,T4a-b,T5a-b,T6a-b IGBT

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


$P_{on}(100\%) = 29,91 \text{ kW}$
 $E_{on}(100\%) = 1,12 \text{ mJ}$
 $t_{Eon} = 0,24 \text{ }\mu\text{s}$

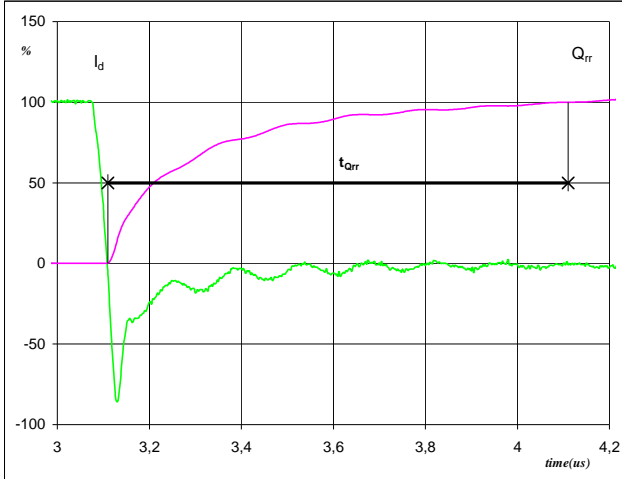
Figure 7 D1,D2,D3,D4,D5,D6 FWD

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


$V_d(100\%) = 300 \text{ V}$
 $I_d(100\%) = 100 \text{ A}$
 $I_{RRM}(100\%) = -87 \text{ A}$
 $t_{rr} = 0,27 \text{ }\mu\text{s}$

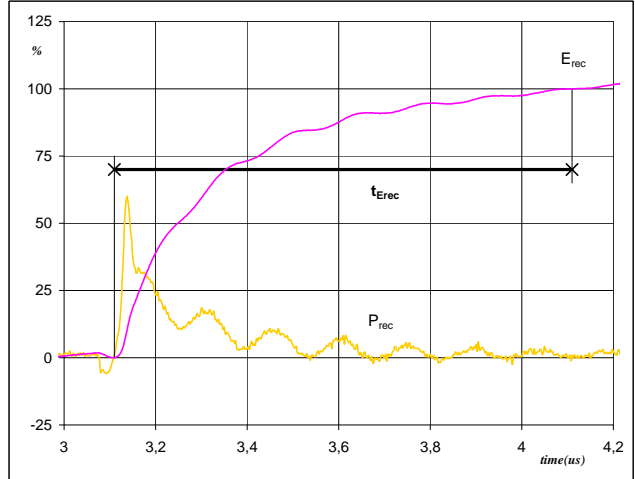
Switching Definitions Output Inverter

Figure 8 D1,D2,D3,D4,D5,D6 FWD

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


I_d (100%) =	100	A
Q_{rr} (100%) =	7,48	μC
t_{Qrr} =	1,00	μs

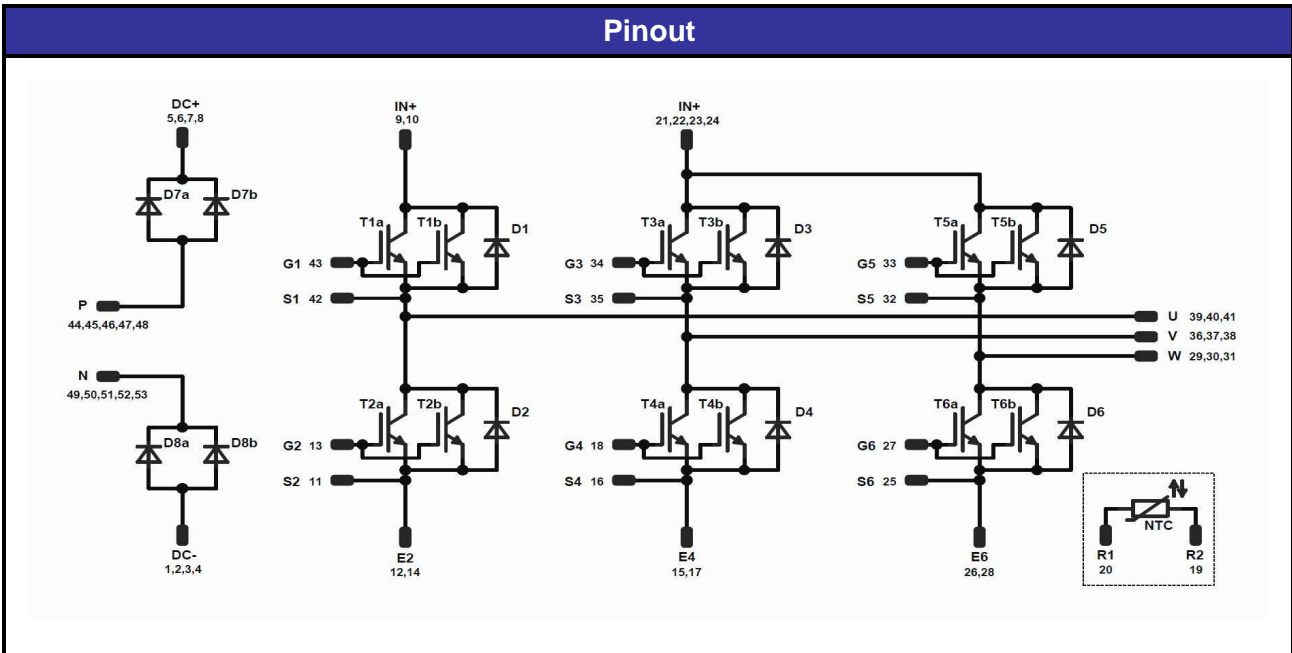
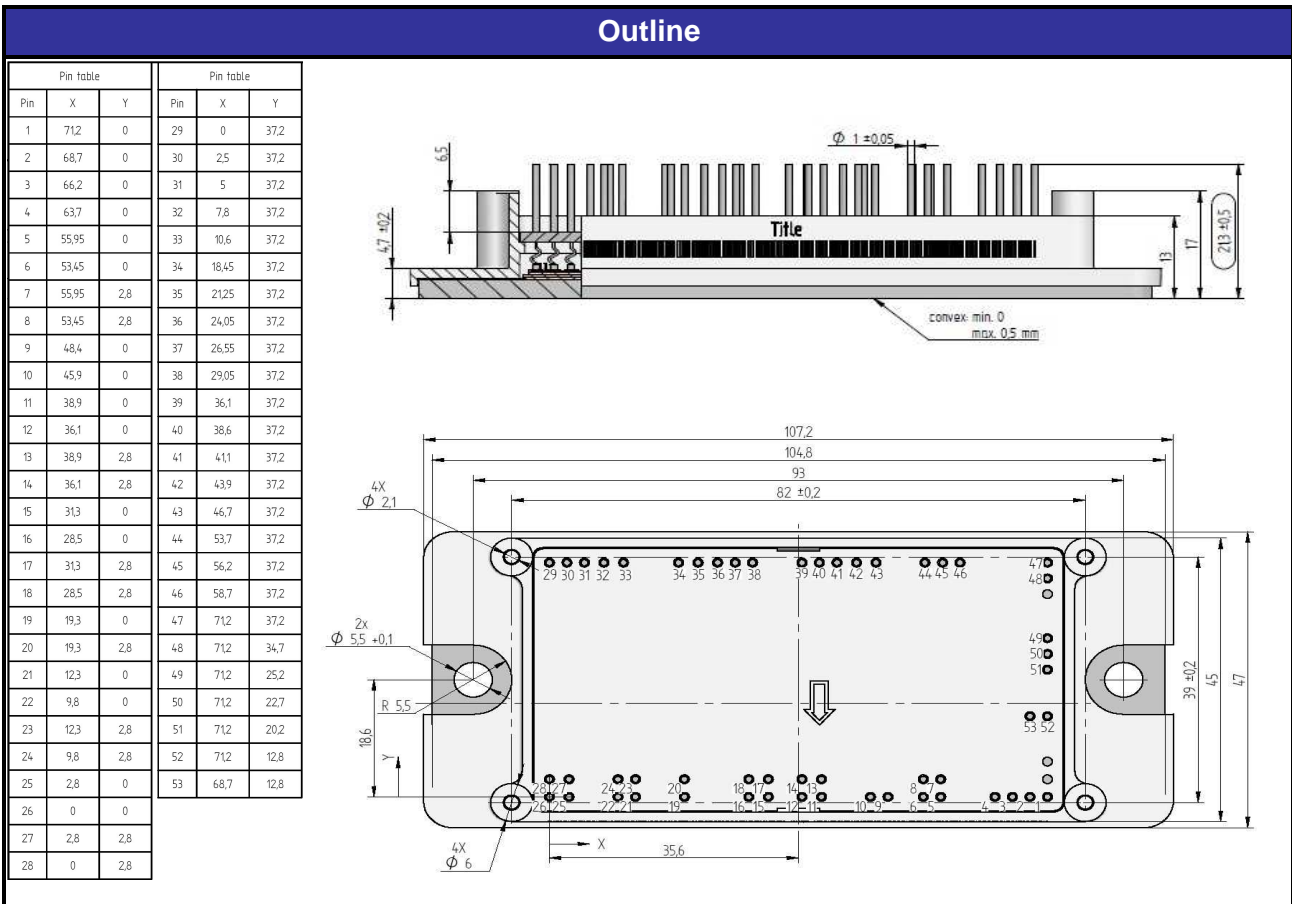
Figure 9 D1,D2,D3,D4,D5,D6 FWD

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


P_{rec} (100%) =	29,91	kW
E_{rec} (100%) =	1,91	mJ
t_{Erec} =	1,00	μs

Ordering Code and Marking - Outline - Pinout

Ordering Code & Marking			
Version	Ordering Code	in DataMatrix as	in packaging barcode as
17mm housing	30-F206R6A100SB-M444E	M444-E	M444-E
17mm housing, without thermistor	30-F206R6A100SB01-M444E10	M444-E10	M444-E10



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