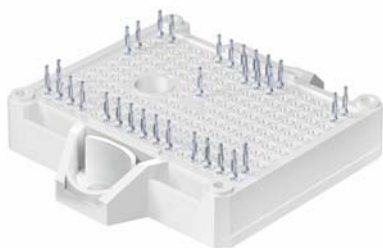


# SK25DGDL12T7ETE2



SEMITOP®E2

## 3-phase Converter-Inverter-Brake (CIB)

### Engineering Sample SK25DGDL12T7ETE2

#### Target Data

#### Features\*

- Optimized design for superior thermal performance
- Low inductive design
- Press-Fit contact technology
- 1200V Generation 7 IGBT (T7)
- Robust and soft switching CAL4F diode technology
- PEP rectifier diode technology for enhanced power and environmental robustness
- Integrated NTC temperature sensor
- UL recognized file no. E 63 532

#### Typical Applications

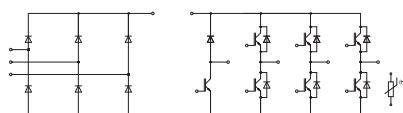
- Motor drives
- Air conditioning
- Auxiliary Inverters

#### Remarks

- Recommended  $T_{j,op} = -40 \dots +150 \text{ }^{\circ}\text{C}$

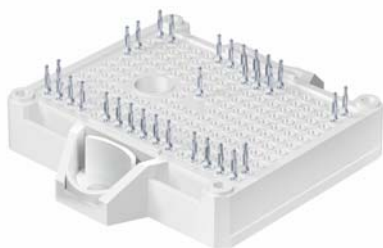
#### Absolute Maximum Ratings

Symbol	Conditions		Values	Unit
Inverter - IGBT				
V <sub>CES</sub>	T <sub>j</sub> = 25 °C		1200	V
I <sub>C</sub>	λ <sub>paste</sub> =0.8 W/(mK)	T <sub>s</sub> = 25 °C	41	A
	T <sub>j</sub> = 175 °C	T <sub>s</sub> = 70 °C	33	A
I <sub>C</sub>	λ <sub>paste</sub> =2.5 W/(mK)	T <sub>s</sub> = 25 °C	47	A
	T <sub>j</sub> = 175 °C	T <sub>s</sub> = 70 °C	38	A
I <sub>Cnom</sub>			25	A
I <sub>CRM</sub>			50	A
V <sub>GES</sub>			-20 ... 20	V
t <sub>psc</sub>	V <sub>CC</sub> = 800 V V <sub>GE</sub> ≤ 15 V V <sub>CES</sub> ≤ 1200 V	T <sub>j</sub> = 175 °C	7	μs
T <sub>j</sub>			-40 ... 175	°C
Chopper - IGBT				
V <sub>CES</sub>	T <sub>j</sub> = 25 °C		1200	V
I <sub>C</sub>	λ <sub>paste</sub> =0.8 W/(mK)	T <sub>s</sub> = 25 °C	41	A
	T <sub>j</sub> = 175 °C	T <sub>s</sub> = 70 °C	33	A
I <sub>C</sub>	λ <sub>paste</sub> =2.5 W/(mK)	T <sub>s</sub> = 25 °C	47	A
	T <sub>j</sub> = 175 °C	T <sub>s</sub> = 70 °C	38	A
I <sub>Cnom</sub>			25	A
I <sub>CRM</sub>			50	A
V <sub>GES</sub>			-20 ... 20	V
t <sub>psc</sub>	V <sub>CC</sub> = 800 V V <sub>GE</sub> ≤ 15 V V <sub>CES</sub> ≤ 1200 V	T <sub>j</sub> = 175 °C	7	μs
T <sub>j</sub>			-40 ... 175	°C
Inverse - Diode				
V <sub>RRM</sub>	T <sub>j</sub> = 25 °C		1200	V
I <sub>F</sub>	λ <sub>paste</sub> =0.8 W/(mK)	T <sub>s</sub> = 25 °C	30	A
	T <sub>j</sub> = 175 °C	T <sub>s</sub> = 70 °C	24	A
I <sub>F</sub>	λ <sub>paste</sub> =2.5 W/(mK)	T <sub>s</sub> = 25 °C	35	A
	T <sub>j</sub> = 175 °C	T <sub>s</sub> = 70 °C	28	A
I <sub>FRM</sub>			50	A
I <sub>FSM</sub>	t <sub>p</sub> = 10 ms, sin 180°, T <sub>j</sub> = 150 °C		100	A
T <sub>j</sub>			-40 ... 175	°C
Freewheeling - Diode				
V <sub>RRM</sub>	T <sub>j</sub> = 25 °C		1200	V
I <sub>F</sub>	λ <sub>paste</sub> =0.8 W/(mK)	T <sub>s</sub> = 25 °C	15	A
	T <sub>j</sub> = 175 °C	T <sub>s</sub> = 70 °C	12	A
I <sub>F</sub>	λ <sub>paste</sub> =2.5 W/(mK)	T <sub>s</sub> = 25 °C	16	A
	T <sub>j</sub> = 175 °C	T <sub>s</sub> = 70 °C	13	A
I <sub>FRM</sub>			20	A
I <sub>FSM</sub>	t <sub>p</sub> = 10 ms, sin 180°, T <sub>j</sub> = 150 °C		36	A
T <sub>j</sub>			-40 ... 175	°C



DGDLET

# SK25DGDL12T7ETE2



**SEMITOP®E2**

**3-phase  
Converter-Inverter-Brake  
(CIB)**

**Engineering Sample  
SK25DGDL12T7ETE2**

Target Data

## Features\*

- Optimized design for superior thermal performance
- Low inductive design
- Press-Fit contact technology
- 1200V Generation 7 IGBT (T7)
- Robust and soft switching CAL4F diode technology
- PEP rectifier diode technology for enhanced power and environmental robustness
- Integrated NTC temperature sensor
- UL recognized file no. E 63 532

## Typical Applications

- Motor drives
- Air conditioning
- Auxiliary Inverters

## Remarks

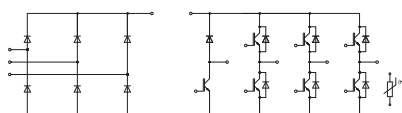
- Recommended  $T_{j,op} = -40 \dots +150 \text{ }^{\circ}\text{C}$

## Absolute Maximum Ratings

Symbol	Conditions	Values	Unit
<b>Rectifier - Diode</b>			
$V_{RRM}$	$T_j = 25 \text{ }^{\circ}\text{C}$	1600	V
$I_F$	$\lambda_{paste} = 0.8 \text{ W/(mK)}$	61	A
	$T_j = 175 \text{ }^{\circ}\text{C}$	47	A
$I_F$	$\lambda_{paste} = 2.5 \text{ W/(mK)}$	72	A
	$T_j = 175 \text{ }^{\circ}\text{C}$	57	A
$I_{FSM}$	$t_p = 10 \text{ ms}$	370	A
	$\sin 180^{\circ}$	270	A
$i^2t$	$t_p = 10 \text{ ms}$	685	$\text{A}^2\text{s}$
	$\sin 180^{\circ}$	365	$\text{A}^2\text{s}$
$T_j$		-40 ... 175	$^{\circ}\text{C}$
<b>Module</b>			
$I_{t(RMS)}$	$\Delta T_{terminal}$ at PCB joint = 30 K, per pin	30	A
$T_{stg}$	module without TIM	-40 ... 125	$^{\circ}\text{C}$
$V_{isol}$	AC, sinusoidal, 1 min	2500	V

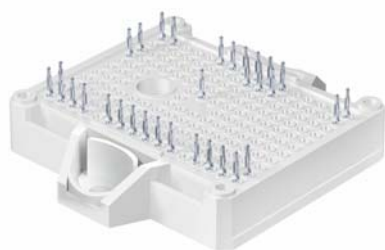
## Characteristics

Symbol	Conditions	min.	typ.	max.	Unit
<b>Inverter - IGBT</b>					
$V_{CE(sat)}$	$I_C = 25 \text{ A}$				
	$V_{GE} = 15 \text{ V}$				
	chiplevel				
	$T_j = 25 \text{ }^{\circ}\text{C}$		1.60	1.75	V
	$T_j = 150 \text{ }^{\circ}\text{C}$		1.82	1.96	V
	$T_j = 175 \text{ }^{\circ}\text{C}$		1.86	2.00	V
$V_{CE0}$					
	$T_j = 25 \text{ }^{\circ}\text{C}$		0.90	1.00	V
	chiplevel				
	$T_j = 150 \text{ }^{\circ}\text{C}$		0.75	0.83	V
	$T_j = 175 \text{ }^{\circ}\text{C}$		0.72	0.80	V
$r_{CE}$					
	$V_{GE} = 15 \text{ V}$				
	chiplevel				
	$T_j = 25 \text{ }^{\circ}\text{C}$		28	30	m $\Omega$
	$T_j = 150 \text{ }^{\circ}\text{C}$		43	45	m $\Omega$
	$T_j = 175 \text{ }^{\circ}\text{C}$		46	48	m $\Omega$
$V_{GE(th)}$	$V_{GE} = V_{CE}, I_C = 0.53 \text{ mA}$	5.15	5.8	6.45	V
$I_{CES}$	$V_{GE} = 0 \text{ V}, V_{CE} = 1200 \text{ V}, T_j = 25 \text{ }^{\circ}\text{C}$			1	mA
$C_{ies}$	$V_{CE} = 25 \text{ V}$				
	$V_{GE} = 0 \text{ V}$				
	$f = 1 \text{ MHz}$		4.8		nF
$C_{oes}$	$V_{CE} = 25 \text{ V}$				
	$V_{GE} = 0 \text{ V}$				
	$f = 1 \text{ MHz}$		0.0615		nF
$C_{res}$	$V_{CE} = 25 \text{ V}$				
	$V_{GE} = 0 \text{ V}$				
	$f = 1 \text{ MHz}$		0.017		nF
$Q_G$	$V_{GE} = -15\text{V} \dots +15\text{V}$		354		nC
$R_{Gint}$	$T_j = 25 \text{ }^{\circ}\text{C}$		0		$\Omega$
$t_{d(on)}$	$V_{CC} = 600 \text{ V}$				
	$I_C = 25 \text{ A}$				
	$R_{G on} = 6.2 \text{ } \Omega$				
	$T_j = 25 \text{ }^{\circ}\text{C}$		28		ns
	$T_j = 150 \text{ }^{\circ}\text{C}$		30		ns
	$T_j = 175 \text{ }^{\circ}\text{C}$		32		ns
$t_r$	$R_{G off} = 6.2 \text{ } \Omega$				
	$V_{GE} = +15/-15 \text{ V}$				
	$T_j = 25 \text{ }^{\circ}\text{C}$		23		ns
	$T_j = 150 \text{ }^{\circ}\text{C}$		25		ns
	$T_j = 175 \text{ }^{\circ}\text{C}$		26		ns
$E_{on}$	$(T_j = 150 \text{ }^{\circ}\text{C})$				
	$di/dt_{on} = 880 \text{ A}/\mu\text{s}$				
	$T_j = 25 \text{ }^{\circ}\text{C}$		1.65		mJ
	$di/dt_{off} = 210 \text{ A}/\mu\text{s}$				
	$T_j = 150 \text{ }^{\circ}\text{C}$		2.42		mJ
	$dv/dt = 5400 \text{ V}/\mu\text{s}$				
	$T_j = 175 \text{ }^{\circ}\text{C}$		2.72		mJ



**DGDLE-T**

# SK25DGDL12T7ETE2



SEMITOP®E2

## 3-phase Converter-Inverter-Brake (CIB)

### Engineering Sample SK25DGDL12T7ETE2

#### Target Data

#### Features\*

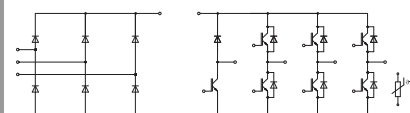
- Optimized design for superior thermal performance
- Low inductive design
- Press-Fit contact technology
- 1200V Generation 7 IGBT (T7)
- Robust and soft switching CAL4F diode technology
- PEP rectifier diode technology for enhanced power and environmental robustness
- Integrated NTC temperature sensor
- UL recognized file no. E 63 532

#### Typical Applications

- Motor drives
- Air conditioning
- Auxiliary Inverters

#### Remarks

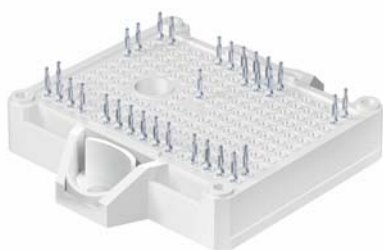
- Recommended  $T_{j,op} = -40 \dots +150 \text{ }^{\circ}\text{C}$



DGDLET

Characteristics						
Symbol	Conditions		min.	typ.	max.	Unit
Inverter - IGBT						
t <sub>d(off)</sub>	V <sub>CC</sub> = 600 V	T <sub>j</sub> = 25 °C		191		ns
	I <sub>C</sub> = 25 A	T <sub>j</sub> = 150 °C		231		ns
	R <sub>G on</sub> = 6.2 Ω	T <sub>j</sub> = 175 °C		251		ns
t <sub>f</sub>	R <sub>G off</sub> = 6.2 Ω	T <sub>j</sub> = 25 °C		66		ns
	V <sub>GE</sub> = +15/-15 V	T <sub>j</sub> = 150 °C		101		ns
	(T <sub>j</sub> = 150 °C)	T <sub>j</sub> = 175 °C		108		ns
E <sub>off</sub>	di/dt <sub>on</sub> = 880 A/μs	T <sub>j</sub> = 25 °C		2.04		mJ
	di/dt <sub>off</sub> = 210 A/μs	T <sub>j</sub> = 150 °C		2.71		mJ
	dv/dt = 5400 V/μs	T <sub>j</sub> = 175 °C		3.09		mJ
R <sub>th(j-s)</sub>	per IGBT, λ <sub>paste</sub> =0.8 W/(mK)			1.32		K/W
R <sub>th(j-s)</sub>	per IGBT, λ <sub>paste</sub> =2.5 W/(mK)			1.06		K/W
Chopper - IGBT						
V <sub>CE(sat)</sub>	I <sub>C</sub> = 25 A	T <sub>j</sub> = 25 °C		1.60	1.75	V
	V <sub>GE</sub> = 15 V	T <sub>j</sub> = 150 °C		1.82	1.96	V
	chipelevel	T <sub>j</sub> = 175 °C		1.86	2.00	V
V <sub>CE0</sub>		T <sub>j</sub> = 25 °C		0.90	1.00	V
	chipelevel	T <sub>j</sub> = 150 °C		0.75	0.83	V
		T <sub>j</sub> = 175 °C		0.72	0.80	V
r <sub>CE</sub>	V <sub>GE</sub> = 15 V	T <sub>j</sub> = 25 °C		28	30	mΩ
	chipelevel	T <sub>j</sub> = 150 °C		43	45	mΩ
		T <sub>j</sub> = 175 °C		46	48	mΩ
V <sub>GE(th)</sub>	V <sub>GE</sub> = V <sub>CE</sub> , I <sub>C</sub> = 0.53 mA		5.15	5.8	6.45	V
I <sub>CES</sub>	V <sub>GE</sub> = 0 V, V <sub>CE</sub> = 1200 V, T <sub>j</sub> = 25 °C				1	mA
C <sub>ies</sub>	V <sub>CE</sub> = 25 V	f = 1 MHz		4.8		nF
C <sub>oes</sub>	V <sub>GE</sub> = 0 V	f = 1 MHz		0.0615		nF
C <sub>res</sub>		f = 1 MHz		0.017		nF
Q <sub>G</sub>	V <sub>GE</sub> = -15V...+15V			354		nC
R <sub>Gint</sub>	T <sub>j</sub> = 25 °C			0		Ω
t <sub>d(on)</sub>		T <sub>j</sub> = 25 °C		28		ns
		T <sub>j</sub> = 150 °C		30		ns
		T <sub>j</sub> = 175 °C		32		ns
t <sub>r</sub>		T <sub>j</sub> = 25 °C		23		ns
		T <sub>j</sub> = 150 °C		25		ns
		T <sub>j</sub> = 175 °C		26		ns
E <sub>on</sub>	V <sub>CC</sub> = 600 V	T <sub>j</sub> = 25 °C		1.65		mJ
	I <sub>C</sub> = 25 A	T <sub>j</sub> = 150 °C		2.42		mJ
	R <sub>G on</sub> = 6.2 Ω	T <sub>j</sub> = 175 °C		2.72		mJ
	R <sub>G off</sub> = 6.2 Ω					
	V <sub>GE</sub> = +15/-15 V					
t <sub>d(off)</sub>		T <sub>j</sub> = 25 °C		191		ns
	(T <sub>j</sub> = 150 °C)	T <sub>j</sub> = 150 °C		231		ns
	di/dt <sub>on</sub> = 880 A/μs	T <sub>j</sub> = 175 °C		251		ns
t <sub>f</sub>	di/dt <sub>off</sub> = 210 A/μs	T <sub>j</sub> = 25 °C		66		ns
	dv/dt = 5400 V/μs	T <sub>j</sub> = 150 °C		101		ns
		T <sub>j</sub> = 175 °C		108		ns
E <sub>off</sub>		T <sub>j</sub> = 25 °C		2.04		mJ
		T <sub>j</sub> = 150 °C		2.71		mJ
		T <sub>j</sub> = 175 °C		3.09		mJ
R <sub>th(j-s)</sub>	per IGBT, λ <sub>paste</sub> =0.8 W/(mK)			1.32		K/W
R <sub>th(j-s)</sub>	per IGBT, λ <sub>paste</sub> =2.5 W/(mK)			1.06		K/W

# SK25DGDL12T7ETE2



SEMITOP®E2

## 3-phase Converter-Inverter-Brake (CIB)

### Engineering Sample SK25DGDL12T7ETE2

#### Target Data

#### Features\*

- Optimized design for superior thermal performance
- Low inductive design
- Press-Fit contact technology
- 1200V Generation 7 IGBT (T7)
- Robust and soft switching CAL4F diode technology
- PEP rectifier diode technology for enhanced power and environmental robustness
- Integrated NTC temperature sensor
- UL recognized file no. E 63 532

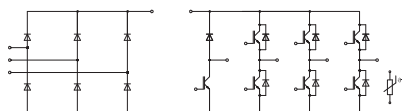
#### Typical Applications

- Motor drives
- Air conditioning
- Auxiliary Inverters

#### Remarks

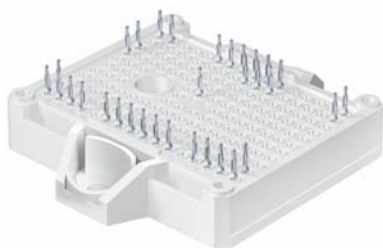
- Recommended  $T_{j,op} = -40 \dots +150 \text{ }^{\circ}\text{C}$

Characteristics						
Symbol	Conditions		min.	typ.	max.	Unit
Inverse - Diode						
V <sub>F</sub> = V <sub>EC</sub>	I <sub>F</sub> = 25 A	T <sub>j</sub> = 25 °C		2.41	2.74	V
		T <sub>j</sub> = 150 °C		2.45	2.79	V
		chiplevel	T <sub>j</sub> = 175 °C		2.30	2.62
V <sub>F0</sub>	chiplevel	T <sub>j</sub> = 25 °C		1.30	1.50	V
		T <sub>j</sub> = 150 °C		0.90	1.10	V
		T <sub>j</sub> = 175 °C		0.82	0.98	V
r <sub>F</sub>	chiplevel	T <sub>j</sub> = 25 °C		44	50	mΩ
		T <sub>j</sub> = 150 °C		62	68	mΩ
		T <sub>j</sub> = 175 °C		59	66	mΩ
I <sub>RRM</sub>	V <sub>CC</sub> = 600 V I <sub>F</sub> = 25 A V <sub>GE</sub> = -15 V (T <sub>j</sub> = 150 °C) di/dt <sub>off</sub> = 1050 A/μs	T <sub>j</sub> = 25 °C		20		A
		T <sub>j</sub> = 150 °C		28		A
		T <sub>j</sub> = 175 °C		30		A
Q <sub>rr</sub>		T <sub>j</sub> = 25 °C		1.41		μC
		T <sub>j</sub> = 150 °C		3.71		μC
		T <sub>j</sub> = 175 °C		4.19		μC
E <sub>rr</sub>		T <sub>j</sub> = 25 °C		0.51		mJ
		T <sub>j</sub> = 150 °C		1.61		mJ
		T <sub>j</sub> = 175 °C		2.46		mJ
R <sub>th(j-s)</sub>	per Diode, λ <sub>paste</sub> =0.8 W/(mK)			1.66		K/W
R <sub>th(j-s)</sub>	per Diode, λ <sub>paste</sub> =2.5 W/(mK)			1.29		K/W
Freewheeling - Diode						
V <sub>F</sub> = V <sub>EC</sub>	I <sub>F</sub> = 10 A	T <sub>j</sub> = 25 °C		2.59	2.94	V
		T <sub>j</sub> = 150 °C		2.71	3.08	V
		chiplevel	T <sub>j</sub> = 175 °C		2.53	2.89
V <sub>F0</sub>	chiplevel	T <sub>j</sub> = 25 °C		1.30	1.50	V
		T <sub>j</sub> = 150 °C		0.90	1.10	V
		T <sub>j</sub> = 175 °C		0.82	0.98	V
r <sub>F</sub>	chiplevel	T <sub>j</sub> = 25 °C		129	144	mΩ
		T <sub>j</sub> = 150 °C		181	198	mΩ
		T <sub>j</sub> = 175 °C		171	191	mΩ
I <sub>RRM</sub>	V <sub>CC</sub> = 600 V I <sub>F</sub> = 10 A V <sub>GE</sub> = -15 V (T <sub>j</sub> = 150 °C) di/dt <sub>off</sub> = 790 A/μs	T <sub>j</sub> = 25 °C		8		A
		T <sub>j</sub> = 150 °C		14		A
		T <sub>j</sub> = 175 °C		16		A
Q <sub>rr</sub>		T <sub>j</sub> = 25 °C		0.58		μC
		T <sub>j</sub> = 150 °C		2.01		μC
		T <sub>j</sub> = 175 °C		2.37		μC
E <sub>rr</sub>		T <sub>j</sub> = 25 °C		0.36		mJ
		T <sub>j</sub> = 150 °C		0.91		mJ
		T <sub>j</sub> = 175 °C		1.16		mJ
R <sub>th(j-s)</sub>	per Diode, λ <sub>paste</sub> =0.8 W/(mK)			2.64		K/W
R <sub>th(j-s)</sub>	per Diode, λ <sub>paste</sub> =2.5 W/(mK)			2.24		K/W



DGDLET

# SK25DGDL12T7ETE2



SEMITOP®E2

## 3-phase Converter-Inverter-Brake (CIB)

### Engineering Sample SK25DGDL12T7ETE2

#### Target Data

#### Features\*

- Optimized design for superior thermal performance
- Low inductive design
- Press-Fit contact technology
- 1200V Generation 7 IGBT (T7)
- Robust and soft switching CAL4F diode technology
- PEP rectifier diode technology for enhanced power and environmental robustness
- Integrated NTC temperature sensor
- UL recognized file no. E 63 532

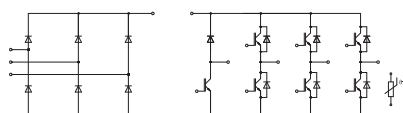
#### Typical Applications

- Motor drives
- Air conditioning
- Auxiliary Inverters

#### Remarks

- Recommended  $T_{j,op} = -40 \dots +150 \text{ }^{\circ}\text{C}$

Characteristics						
Symbol	Conditions		min.	typ.	max.	Unit
Rectifier - Diode						
V <sub>F</sub>	I <sub>F</sub> = 25 A chiplevel	T <sub>j</sub> = 25 °C		1.04	1.30	V
		T <sub>j</sub> = 150 °C		0.95	1.21	V
		T <sub>j</sub> = 175 °C		0.94	1.21	V
V <sub>F0</sub>	chip	T <sub>j</sub> = 25 °C		0.89	1.09	V
		T <sub>j</sub> = 150 °C		0.73	0.92	V
		T <sub>j</sub> = 175 °C		0.69	0.88	V
r <sub>F</sub>	chiplevel	T <sub>j</sub> = 25 °C		6.2	8.5	mΩ
		T <sub>j</sub> = 150 °C		8.8	12	mΩ
		T <sub>j</sub> = 175 °C		10.0	13	mΩ
I <sub>R</sub>	T <sub>j</sub> = 150 °C, V <sub>RRM</sub>				2	mA
R <sub>th(j-s)</sub>	per Diode, λ <sub>paste</sub> =0.8 W/(mK)			1.48		K/W
R <sub>th(j-s)</sub>	per Diode, λ <sub>paste</sub> =2.5 W/(mK)			1.14		K/W
Module						
M <sub>s</sub>	to heatsink		1.6		2.3	Nm
w				35		g
L <sub>CE</sub>				30		nH
Temperature Sensor						
R <sub>100</sub>	T <sub>C</sub> =100°C (R <sub>25</sub> =5 kΩ)			493 ± 5%		Ω
B <sub>25/85</sub>	R <sub>(T)</sub> =R <sub>25</sub> *exp[B <sub>25/85</sub> *(1/T-1/298)], T[K]			3420		K



DGDLET

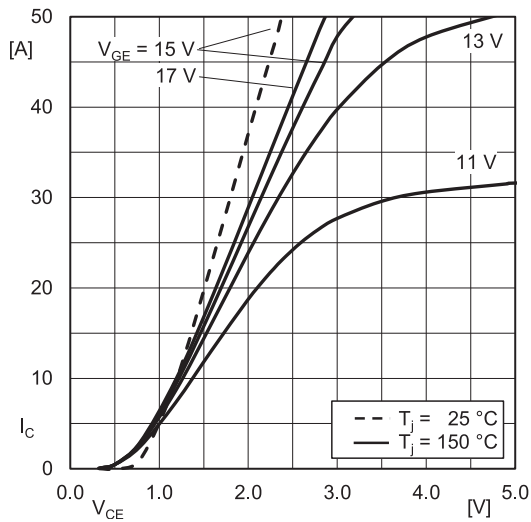


Fig. 1: Typ. IGBT output characteristic, incl.  $R_{CC+EE'}$

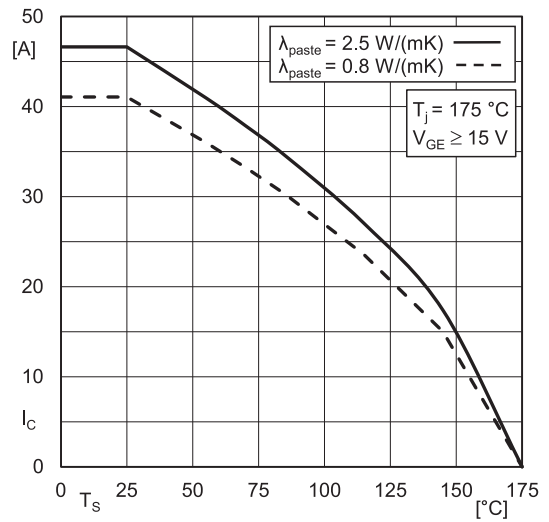


Fig. 2: IGBT rated current vs. temperature  $I_C=f(T_s)$

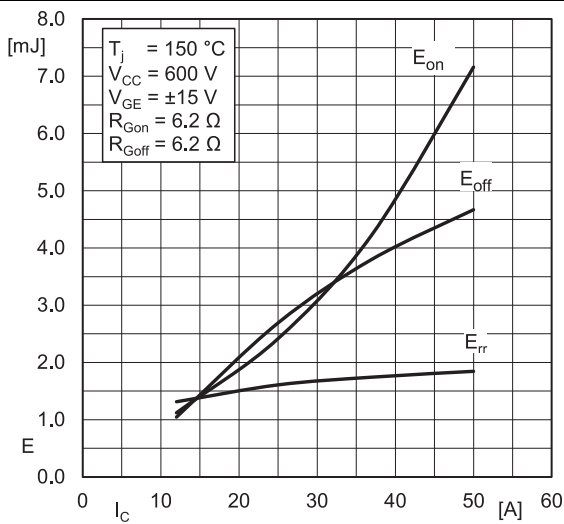


Fig. 3: Typ. turn-on /-off energy =  $f(I_C)$

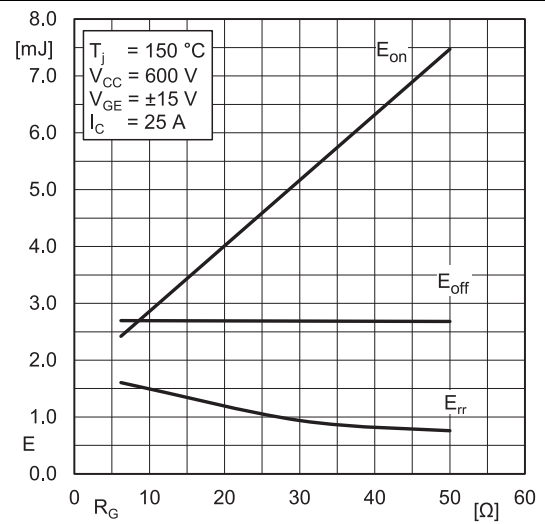


Fig. 4: Typ. turn-on /-off energy =  $f(R_G)$

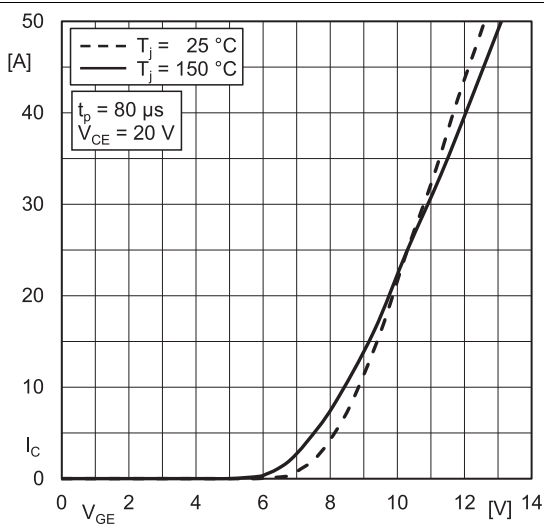


Fig. 5: Typ. IGBT transfer characteristic

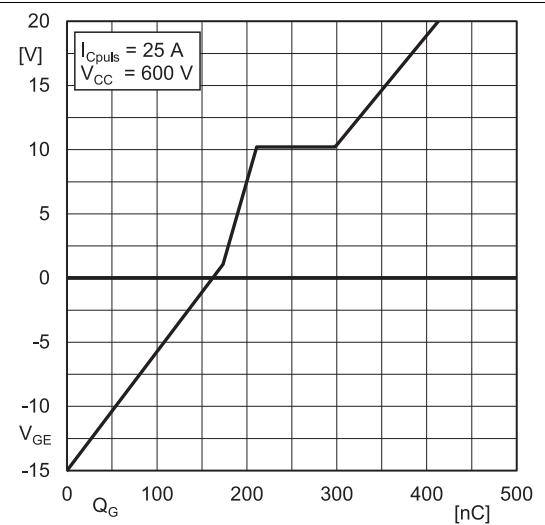


Fig. 6: Typ. IGBT gate charge characteristic

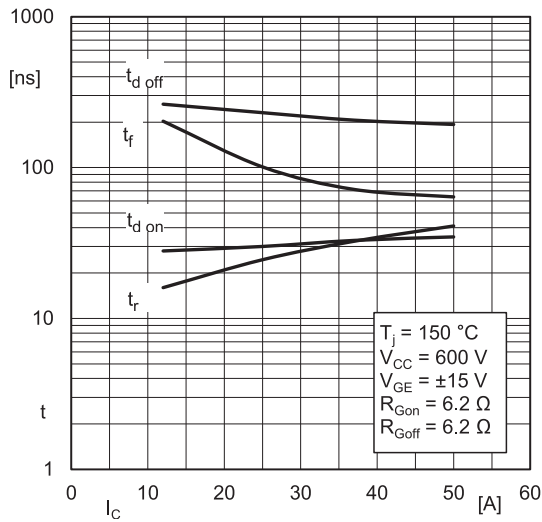


Fig. 7: Typ. switching times = f (I<sub>C</sub>)

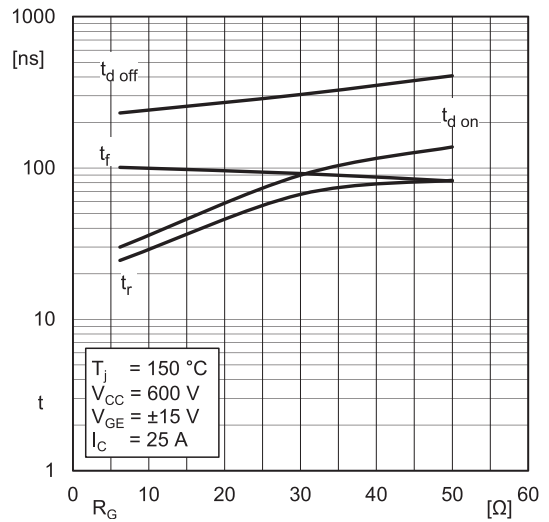


Fig. 8: Typ. switching times = f (R<sub>G</sub>)

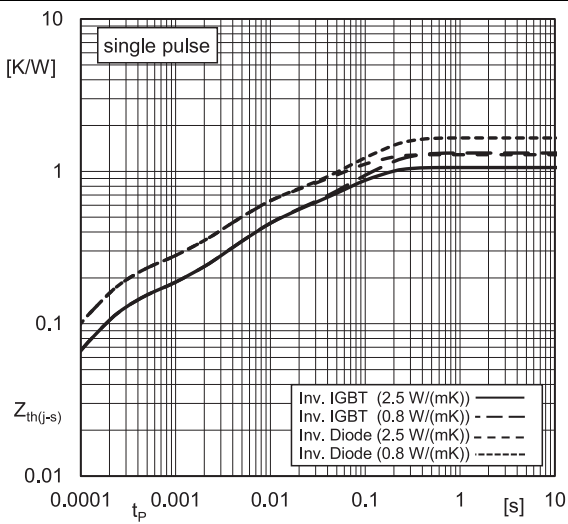


Fig. 9: Typ. transient thermal impedance

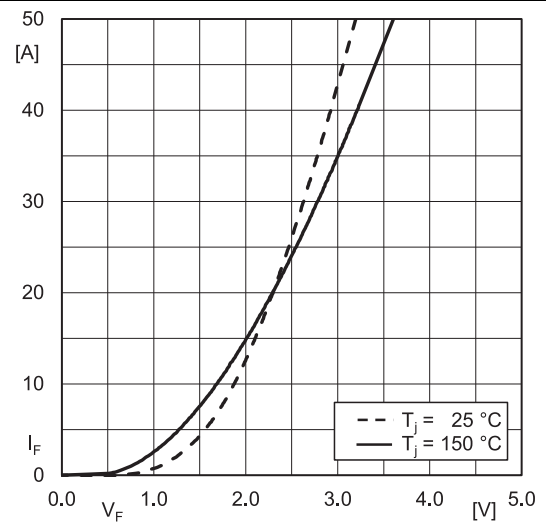


Fig. 10: Typ. Inv. diode forward charact., incl. R<sub>CC'</sub>+EE'

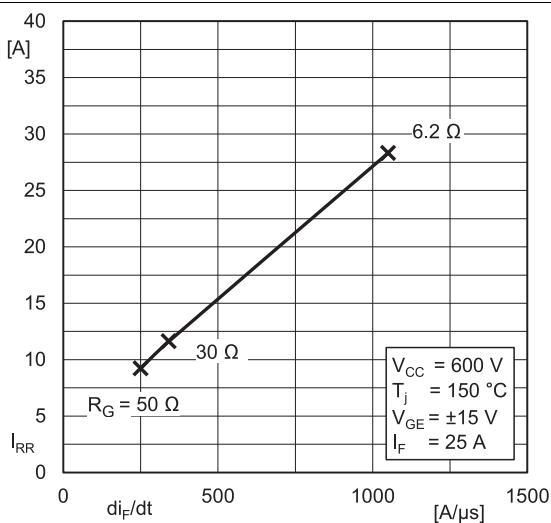


Fig. 11: Typ. Inv. diode peak reverse recovery current

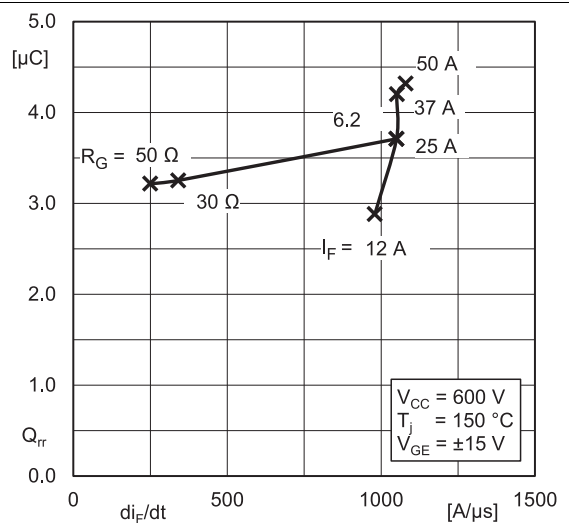


Fig. 12: Typ. Inv. diode reverse recovery charge

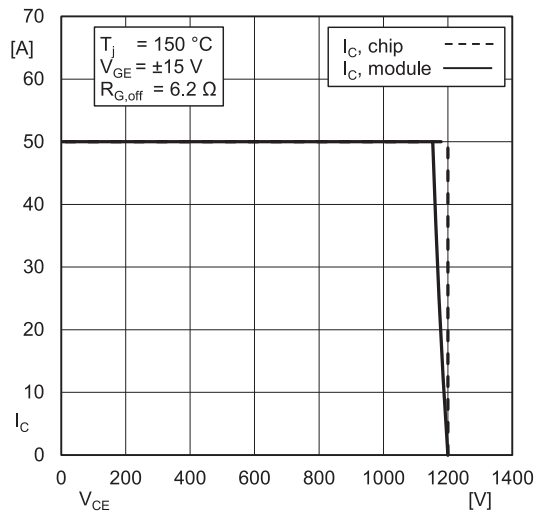


Fig. 13: IGBT Reverse Bias Safe Operating Area (RBSOA)

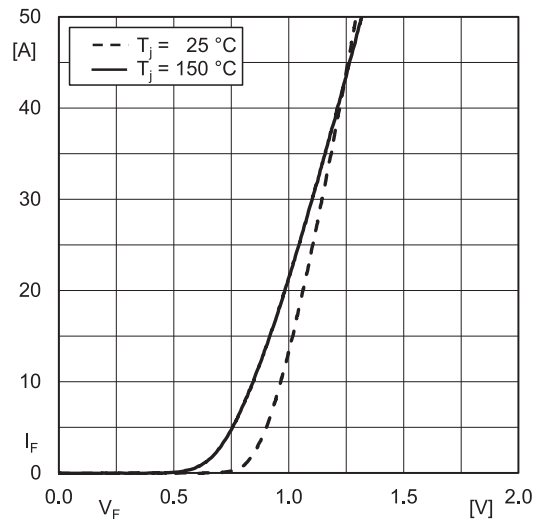
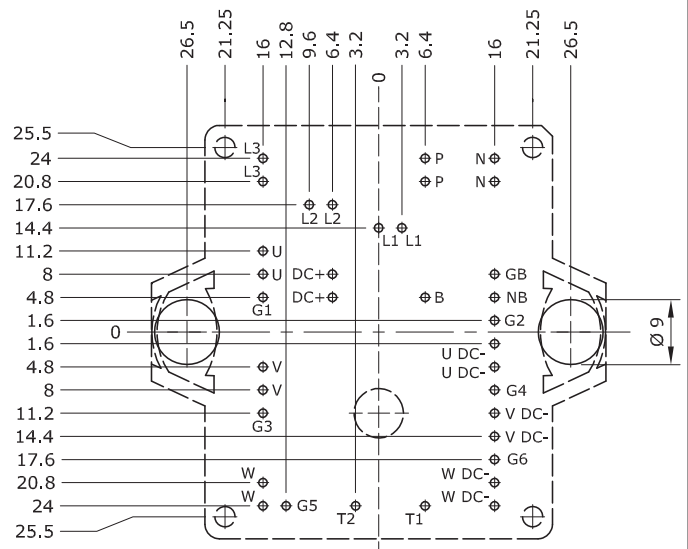
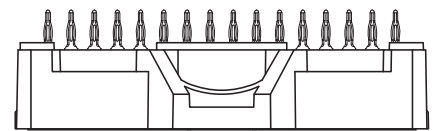

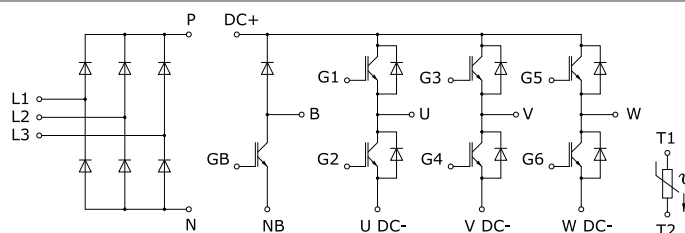


Fig. 14: Typ. Rect. diode forward charact., incl.  $R_{CC'+EE'}$





- Pin-Grid 3.2 mm
- Tolerance of PCB hole pattern 
- Diameters of drill  $\varnothing$  1.15mm
- Copper thickness in hole 25 - 50  $\mu$ m
- Hole specification for contacts:  
refer to SEMITOP E1/E2 Mounting Instruction



DGDLE-T

This is an electrostatic discharge sensitive device (ESDS) due to international standard IEC 61340.

## **\*IMPORTANT INFORMATION AND WARNINGS**

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