

MiniSKiiP[®] 1

Twin 6-pack

SKiiP 12ACC12T4V10

Features*

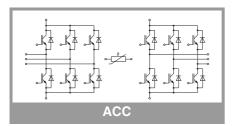
- Trench 4 IGBTs
- Robust and soft switching freewheeling diodes in CAL technology
- · Highly reliable spring contacts for
- electrical connectionsUL recognized: File no. E63532

Typical Applications

• 4Q inverters

Remarks

- Max. case temperature limited to T_C=125°C
- Terminal distances sufficient for basic insulation in 3-phase 480VAC TN systems
- DC-link voltage V_{DC}≤800V
- Max. 500V potential difference between +rect and +DC
- Max. 500V potential difference between -rect and -DC
- Temperature sensor: no basic insulation to main circuit, signal processing with reference to -DC potential
- Please refer to MiniSKiiP "Technical Explanations" and "Mounting Instructions" for further information



Absolut	e Maximum Ratings	5		
Symbol	Conditions		Values	Unit
IGBT 1 -	6			
V _{CES}	T _j = 25 °C		1200	V
lc	λ _{paste} =0.8 W/(mK)	T _s = 25 °C	18	А
	T _j = 175 °C	T _s = 70 °C	14	А
I _C	λ _{paste} =2.5 W/(mK)	T _s = 25 °C	19	А
	T _j = 175 °C	T _s = 70 °C	16	А
I _{Cnom}			8	А
I _{CRM}			24	A
V_{GES}			-20 20	V
t _{psc}	$V_{CC} = 800 V$ $V_{GE} \le 15 V$ $V_{CES} \le 1200 V$	T _j = 150 °C	10	μs
Tj			-40 175	°C
IGBT 7 -	12			
V _{CES}	T _i = 25 °C		1200	V
Ic	λ _{paste} =0.8 W/(mK)	T _s = 25 °C	28	А
-	T _j = 175 °C	T _s = 70 °C	23	Α
lc	λ _{paste} =2.5 W/(mK)	T _s = 25 °C	31	Α
	T _j = 175 °C	T _s = 70 °C	26	Α
I _{Cnom}			15	А
I _{CRM}			45	А
V _{GES}			-20 20	V
t _{psc}	$V_{CC} = 800 V$ $V_{GE} \le 15 V$ $V_{CES} \le 1200 V$	T _j = 150 °C	10	μs
Ti			-40 175	°C
Diode 1	- 6			
V _{RRM}	T _i = 25 °C		1200	V
I _F	λ _{paste} =0.8 W/(mK)	T _s = 25 °C	14	Α
•	$T_i = 150 ^{\circ}\text{C}$	T _s = 70 °C	11	Α
IF	λ _{paste} =2.5 W/(mK)	T _s = 25 °C	15	А
	T _j = 150 °C	T _s = 70 °C	12	Α
I _{FRM}			10	А
I _{FSM}	10 ms, sin 180°, T _j	= 150 °C	55	Α
Tj			-40 150	°C
Diode 7	- 12			
V _{RRM}	T _i = 25 °C		1200	V
IF	λ _{paste} =0.8 W/(mK)	T _s = 25 °C	23	А
	T _j = 175 °C	T _s = 70 °C	18	А
I _F	λ _{paste} =2.5 W/(mK)	T _s = 25 °C	24	А
	$T_j = 175 \text{ °C}$	T _s = 70 °C 20		А
I _{FRM}			30	А
I _{FSM}	10 ms, sin 180°, T _j	= 150 °C	65	А
Tj			-40 175	°C
Module				
I _{t(RMS)}	20 A per spring		20	А
T _{stg}	module without TIM	1	-40 125	°C
V _{isol}	AC sinus 50 Hz, 1 r	min	2500	V

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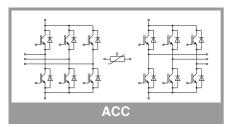
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Symbol	Conditions		min.	typ.	max.	Unit
IGBT 1 -	6					
V _{CE(sat)}	I _C = 8 A	T _i = 25 °C		1.85	2.10	V
02(041)	V _{GE} = 15 V	т _і = 150 °С		2.25	2.45	v
	chiplevel	-				
V _{CE0}	chiplevel	T _j = 25 °C		0.80	0.90	V
		T _j = 150 °C		0.70	0.80	V
r _{CE}	V _{GE} = 15 V	T _j = 25 °C		131	150	mΩ
	chiplevel	T _j = 150 °C		194	206	mΩ
V _{GE(th)}	$V_{GE} = V_{CE} V$, $I_C = 1$		5	5.8	6.5	V
I _{CES}	$V_{GE} = 0 V$	T _j = 25 °C			1	mA
	V _{CE} = 1200 V					mA
Cies	V _{CE} = 25 V	f = 1 MHz		0.49		nF
Coes	$V_{CE} = 25 V$ $V_{GE} = 0 V$	f = 1 MHz		0.05		nF
C _{res}		f = 1 MHz		0.03		nF
Q _G	V _{GE} = - 8 V+ 15 V	-		45		nC
R _{Gint}	T _j = 25 °C			0		Ω
t _{d(on)}	V _{CC} = 600 V	T _j = 125 °C		117		ns
t _r	$I_{\rm C} = 8$ A	T _i = 125 °C		70		ns
Eon	$R_{G on} = 51 \Omega$ $R_{G off} = 51 \Omega$	T _i = 125 °C		1		mJ
t _{d(off)}	di/dt _{on} = 97 A/µs	T _j = 125 °C		300		ns
t _f	di/dt _{off} = 106 A/µs	T _i = 125 °C		120		ns
•	dv/dt = 3300 V/μs	1		-		_
E _{off}	V _{GE} = +15/-15 V L _s = 22 nH	T _j = 125 °C		0.7		mJ
R _{th(j-s)}	per IGBT, λ _{paste} =0.8	3 W/(mK)		1.84		K/W
R _{th(j-s)}				1.6		K/W
IGBT 7 -						1
V _{CE(sat)}	l _C = 15 A	T _i = 25 °C		1.85	2.10	V
OE(Gut)	V _{GE} = 15 V chiplevel	т _і = 150 °С		2.25		
V _{CE0}	ompiovoi				2.40	V
		T = 25 °C		2.25 2.45		
	chiplevel	T _j = 25 °C T _i = 150 °C		0.80	0.90	v
	-	T _j = 150 °C		0.70	0.90 0.80	V V
r _{CE}	V _{GE} = 15 V	$T_j = 150 \ ^{\circ}C$ $T_j = 25 \ ^{\circ}C$		0.70 70	0.90 0.80 80	V V mΩ
r _{CE}	V _{GE} = 15 V chiplevel	$T_j = 150 \text{ °C}$ $T_j = 25 \text{ °C}$ $T_j = 150 \text{ °C}$	5	0.70 70 103	0.90 0.80 80 110	V V mΩ mΩ
r _{CE} V _{GE(th)}	$V_{GE} = 15 V$ chiplevel $V_{GE} = V_{CE} V, I_{C} = 1$	$T_j = 150 \text{ °C}$ $T_j = 25 \text{ °C}$ $T_j = 150 \text{ °C}$ mA	5	0.70 70	0.90 0.80 80 110 6.5	V V mΩ mΩ V
r _{CE}	$V_{GE} = 15 V$ chiplevel $V_{GE} = V_{CE} V, I_{C} = 1$ $V_{GE} = 0 V$	$T_j = 150 \ ^{\circ}C$ $T_j = 25 \ ^{\circ}C$ $T_j = 150 \ ^{\circ}C$	5	0.70 70 103 5.8	0.90 0.80 80 110	V V mΩ mΩ V mA
r _{CE} V _{GE(th)} I _{CES}	$V_{GE} = 15 V$ chiplevel $V_{GE} = V_{CE} V, I_{C} = 1$	$T_{j} = 150 \text{ °C}$ $T_{j} = 25 \text{ °C}$ $T_{j} = 150 \text{ °C}$ mA $T_{j} = 25 \text{ °C}$	5	0.70 70 103 5.8	0.90 0.80 80 110 6.5	V V mΩ mΩ V mA mA
r _{CE} V _{GE(th)} I _{CES}	$V_{GE} = 15 V$ chiplevel $V_{GE} = V_{CE} V, I_{C} = 1$ $V_{GE} = 0 V$ $V_{CE} = 1200 V$		5	0.70 70 103 5.8 - 0.90	0.90 0.80 80 110 6.5	V V mΩ mΩ V mA nF
r _{CE} V _{GE(th)} I _{CES} C _{ies} C _{oes}	$V_{GE} = 15 V$ chiplevel $V_{GE} = V_{CE} V, I_{C} = 1$ $V_{GE} = 0 V$	$T_{j} = 150 \text{ °C}$ $T_{j} = 25 \text{ °C}$ $T_{j} = 150 \text{ °C}$ mA $T_{j} = 25 \text{ °C}$ $f = 1 \text{ MHz}$ $f = 1 \text{ MHz}$	5	0.70 70 103 5.8 - 0.90 0.08	0.90 0.80 80 110 6.5	V V mΩ mΩ V mA mA nF
r _{CE} V _{GE(th)} I _{CES} C _{ies} C _{oes} C _{res}	$V_{GE} = 15 V$ chiplevel $V_{GE} = V_{CE} V, I_{C} = 1$ $V_{GE} = 0 V$ $V_{CE} = 1200 V$ $V_{CE} = 25 V$ $V_{GE} = 0 V$	$T_{j} = 150 \text{ °C}$ $T_{j} = 25 \text{ °C}$ $T_{j} = 150 \text{ °C}$ mA $T_{j} = 25 \text{ °C}$ $f = 1 \text{ MHz}$ $f = 1 \text{ MHz}$ $f = 1 \text{ MHz}$	5	0.70 70 103 5.8 - 0.90 0.08 0.06	0.90 0.80 80 110 6.5	V V mΩ MΩ MA nF nF
r _{CE} V _{GE(th)} I _{CES} C _{ies} C _{oes}	$V_{GE} = 15 V$ chiplevel $V_{GE} = V_{CE} V, I_{C} = 1$ $V_{GE} = 0 V$ $V_{CE} = 1200 V$ $V_{CE} = 25 V$ $V_{GE} = 0 V$ $V_{GE} = -8 V+ 15 V$	$T_{j} = 150 \text{ °C}$ $T_{j} = 25 \text{ °C}$ $T_{j} = 150 \text{ °C}$ mA $T_{j} = 25 \text{ °C}$ $f = 1 \text{ MHz}$ $f = 1 \text{ MHz}$ $f = 1 \text{ MHz}$	5	0.70 70 103 5.8 - 0.90 0.08	0.90 0.80 80 110 6.5	V V mΩ mΩ V mA mA nF
r _{CE} V _{GE(th)} I _{CES} C _{ies} C _{oes} C _{res}	$V_{GE} = 15 V$ chiplevel $V_{GE} = V_{CE} V, I_{C} = 1$ $V_{GE} = 0 V$ $V_{CE} = 1200 V$ $V_{CE} = 25 V$ $V_{GE} = 0 V$ $V_{GE} = -8 V+ 15 V$ $T_{j} = 25 °C$	$T_{j} = 150 \text{ °C}$ $T_{j} = 25 \text{ °C}$ $T_{j} = 150 \text{ °C}$ mA $T_{j} = 25 \text{ °C}$ $f = 1 \text{ MHz}$ $f = 1 \text{ MHz}$ $f = 1 \text{ MHz}$	5	0.70 70 103 5.8 - 0.90 0.08 0.06	0.90 0.80 80 110 6.5	V V mΩ MΩ MA nF nF
r _{CE} V _{GE(th)} I _{CES} C _{ies} C _{oes} C _{res} Q _G	$V_{GE} = 15 V$ chiplevel $V_{GE} = V_{CE} V, I_{C} = 1$ $V_{GE} = 0 V$ $V_{CE} = 1200 V$ $V_{CE} = 25 V$ $V_{GE} = 0 V$ $V_{GE} = -8 V+ 15 V$ $T_{j} = 25 °C$ $V_{CC} = 600 V$	$T_{j} = 150 \text{ °C}$ $T_{j} = 25 \text{ °C}$ $T_{j} = 150 \text{ °C}$ mA $T_{j} = 25 \text{ °C}$ $f = 1 \text{ MHz}$	5	0.70 70 103 5.8 - 0.90 0.08 0.06 85	0.90 0.80 80 110 6.5	V WΩ MΩ V MA MA nF nF nF
r _{CE} V _{GE(th)} I _{CES} C _{ies} C _{oes} C _{res} Q _G R _{Gint}	$V_{GE} = 15 V$ chiplevel $V_{GE} = V_{CE} V, I_{C} = 1$ $V_{GE} = 0 V$ $V_{CE} = 1200 V$ $V_{CE} = 25 V$ $V_{GE} = 0 V$ $V_{GE} = -8 V+ 15 V$ $T_{j} = 25 °C$ $V_{CC} = 600 V$ $I_{C} = 15 A$	$T_{j} = 150 \text{ °C}$ $T_{j} = 25 \text{ °C}$ $T_{j} = 150 \text{ °C}$ mA $T_{j} = 25 \text{ °C}$ $f = 1 \text{ MHz}$ $f = 1 \text{ MHz}$ $f = 1 \text{ MHz}$	5	0.70 70 103 5.8 - 0.90 0.08 0.06 85 0	0.90 0.80 80 110 6.5	V MΩ mΩ MA nF nF nF nF nC Ω
r _{CE} V _{GE(th)} I _{CES} C _{ies} C _{oes} C _{res} Q _G R _{Gint} t _{d(on)}	$V_{GE} = 15 V$ chiplevel $V_{GE} = V_{CE} V, I_{C} = 1$ $V_{GE} = 0 V$ $V_{CE} = 1200 V$ $V_{CE} = 25 V$ $V_{GE} = 0 V$ $V_{GE} = -8 V+ 15 V$ $T_{j} = 25 °C$ $V_{CC} = 600 V$ $I_{C} = 15 A$ $R_{G on} = 39 \Omega$	$\begin{array}{c} T_{j} = 150 \ ^{\circ}\text{C} \\ T_{j} = 25 \ ^{\circ}\text{C} \\ T_{j} = 150 \ ^{\circ}\text{C} \\ \hline \text{mA} \\ T_{j} = 25 \ ^{\circ}\text{C} \\ \hline f = 1 \ \text{MHz} \\ f = 1 \ \text{MHz} \\ f = 1 \ \text{MHz} \\ \hline f = 1 \ \text{MHz} \\ \hline T_{j} = 150 \ ^{\circ}\text{C} \\ \hline T_{j} = 150 \ ^{\circ}\text{C} \\ \hline T_{j} = 150 \ ^{\circ}\text{C} \\ \hline \end{array}$	5	0.70 70 103 5.8 - 0.90 0.08 0.06 85 0 92	0.90 0.80 80 110 6.5	V W MΩ MΩ MA mA nF nF nC Ω ns
rcE V _{GE(th)} ICES Cies Coes Cres Q _G RGint t _{d(on)} t _r Eon	$V_{GE} = 15 V$ chiplevel $V_{GE} = V_{CE} V, I_{C} = 1$ $V_{GE} = 0 V$ $V_{CE} = 1200 V$ $V_{CE} = 25 V$ $V_{GE} = 0 V$ $V_{GE} = -8 V+ 15 V$ $T_{j} = 25 °C$ $V_{CC} = 600 V$ $I_{C} = 15 A$	$\begin{array}{c} T_{j} = 150 \ ^{\circ}\text{C} \\ \hline T_{j} = 25 \ ^{\circ}\text{C} \\ \hline T_{j} = 150 \ ^{\circ}\text{C} \\ \hline m\text{A} \\ \hline T_{j} = 25 \ ^{\circ}\text{C} \\ \hline f = 1 \ \text{MHz} \\ \hline T_{j} = 150 \ ^{\circ}\text{C} \\ \hline T_{j} = 150 \ ^{\circ}\text{C} \\ \hline \end{array}$	5	0.70 70 103 5.8 - 0.90 0.08 0.06 85 0 92 74	0.90 0.80 80 110 6.5	V WΩ mΩ MA mF nF nC Ω ns
rce V _{GE(th)} Ices C _{ies} C _{oes} C _{res} Q _G R _{Gint} t _{d(on)} t _r	$\label{eq:Generalized_states} \begin{array}{c} V_{GE} = 15 \ V \\ chiplevel \\ \hline \\ V_{GE} = V_{CE} \ V, \ I_{C} = 1 \\ \hline \\ V_{GE} = 0 \ V \\ \hline \\ V_{CE} = 1200 \ V \\ \hline \\ V_{CE} = 25 \ V \\ \hline \\ V_{GE} = 0 \ V \\ \hline \\ V_{GE} = 0 \ V \\ \hline \\ V_{GE} = -8 \ V + 15 \ V \\ \hline \\ T_{j} = 25 \ ^{\circ}C \\ \hline \\ V_{CC} = 600 \ V \\ I_{C} = 15 \ A \\ \hline \\ R_{G \ on} = 39 \ \Omega \\ \hline \\ R_{G \ off} = 39 \ \Omega \\ \hline \\ di/dt_{off} = 200 \ A/\mu s \end{array}$	$\begin{array}{c} T_{j} = 150 \ ^{\circ}\text{C} \\ T_{j} = 25 \ ^{\circ}\text{C} \\ T_{j} = 150 \ ^{\circ}\text{C} \\ \hline \text{mA} \\ T_{j} = 25 \ ^{\circ}\text{C} \\ \hline f = 1 \ \text{MHz} \\ f = 1 \ \text{MHz} \\ f = 1 \ \text{MHz} \\ \hline f = 1 \ \text{MHz} \\ \hline T_{j} = 150 \ ^{\circ}\text{C} \\ \hline T_{j} = 150 \ ^{\circ}\text{C} \\ \hline T_{j} = 150 \ ^{\circ}\text{C} \\ \hline \end{array}$	5	0.70 70 103 5.8 - 0.90 0.08 0.06 85 0 92 74 2.1	0.90 0.80 80 110 6.5	V V mΩ mΩ V mA mA mF nF nF nF nC Ω ns mJ
r _{CE} V _{GE(th)} I _{CES} C _{ies} C _{oes} C _{res} Q _G R _{Gint} t _{d(on)} t _r E _{on} t _{d(off)} t _f	$\begin{array}{c} V_{GE} = 15 \ V \\ chiplevel \\ \hline V_{GE} = V_{CE} \ V, \ I_{C} = 1 \\ \hline V_{GE} = 0 \ V \\ \hline V_{CE} = 1200 \ V \\ \hline V_{CE} = 25 \ V \\ \hline V_{GE} = 0 \ V \\ \hline V_{GE} = 0 \ V \\ \hline V_{GE} = -8 \ V+ 15 \ V \\ \hline T_{j} = 25 \ ^{\circ}C \\ \hline V_{CC} = 600 \ V \\ \hline I_{C} = 15 \ A \\ \hline R_{G \ on} = 39 \ \Omega \\ \hline di/dt_{on} = 188 \ A/\mu s \\ di/dt_{off} = 200 \ A/\mu s \\ \hline dv/dt = 3500 \ V/\mu s \\ \hline V_{GE} = +15/-15 \ V \end{array}$	$\begin{array}{c} T_{j} = 150 \ ^{\circ}\text{C} \\ T_{j} = 25 \ ^{\circ}\text{C} \\ T_{j} = 150 \ ^{\circ}\text{C} \\ \hline T_{j} = 25 \ ^{\circ}\text{C} \\ \hline T_{j} = 25 \ ^{\circ}\text{C} \\ \hline f = 1 \ \text{MHz} \\ f = 1 \ \text{MHz} \\ f = 1 \ \text{MHz} \\ \hline T_{j} = 150 \ ^{\circ}\text{C} \\ \hline \end{array}$		0.70 70 103 5.8 - 0.90 0.08 0.06 85 0 92 74 2.1 319	0.90 0.80 80 110 6.5	V MΩ mΩ MA mA mA mF nF nF nC Ω ns mJ ns
r _{CE} V _{GE(th)} I _{CES} C _{ies} C _{res} Q _G R _{Gint} t _{d(on)} t _r E _{on} t _{d(off)}	$\begin{array}{c} V_{GE} = 15 \ V \\ chiplevel \\ \hline V_{GE} = V_{CE} \ V, \ I_{C} = 1 \\ \hline V_{GE} = 0 \ V \\ \hline V_{CE} = 1200 \ V \\ \hline V_{CE} = 25 \ V \\ \hline V_{GE} = 0 \ V \\ \hline V_{GE} = 0 \ V \\ \hline V_{GE} = -8 \ V + 15 \ V \\ \hline T_{j} = 25 \ ^{\circ}C \\ \hline V_{CC} = 600 \ V \\ \hline I_{C} = 15 \ A \\ \hline R_{G \ on} = 39 \ \Omega \\ \hline R_{G \ off} = 39 \ \Omega \\ \hline di/dt_{off} = 200 \ A/\mu s \\ \hline dv/dt = 3500 \ V/\mu s \\ \hline \end{array}$	$\begin{array}{c} T_{j} = 150 \ ^{\circ}\text{C} \\ \hline T_{j} = 25 \ ^{\circ}\text{C} \\ \hline T_{j} = 150 \ ^{\circ}\text{C} \\ \hline m\text{A} \\ \hline T_{j} = 25 \ ^{\circ}\text{C} \\ \hline \end{array} \\ \hline f = 1 \ \text{MHz} \\ \hline f = 1 \ \text{MHz} \\ \hline f = 1 \ \text{MHz} \\ \hline \hline f = 1 \ \text{MHz} \\ \hline \hline T_{j} = 150 \ ^{\circ}\text{C} \\ \hline \hline \end{array} \\ \hline \end{array}$	5	0.70 70 103 5.8 - 0.90 0.08 0.06 85 0 92 74 2.1 319 77	0.90 0.80 80 110 6.5	V MΩ mΩ MΩ V mA mA mA mF nF nF nC Ω ns mJ ns ns



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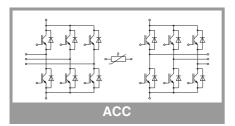
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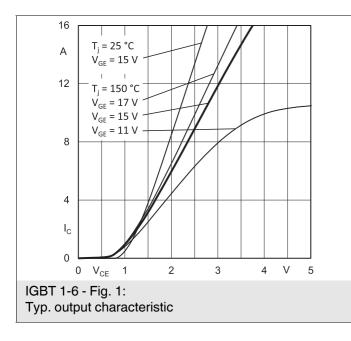
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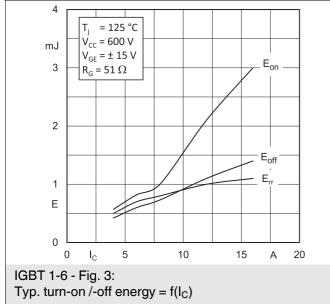
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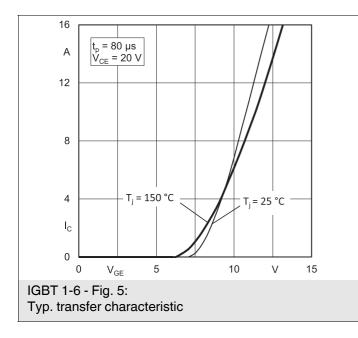
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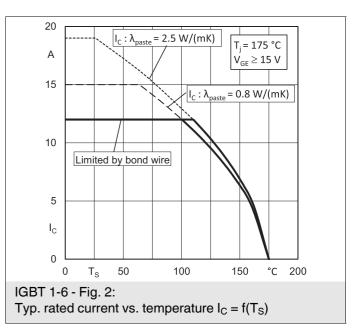
Characte	eristics					
Symbol	Conditions		min.	typ.	max.	Unit
Diode 1 -	6					
$V_F = V_{EC}$	I _F = 8 A	T _j = 25 °C		1.96	2.22	V
	V _{GE} = 0 V chiplevel	T _j = 125 °C		2.08	2.34	V
V _{F0}	abialoval	T _j = 25 °C		1.00	1.10	V
	- chiplevel	T _j = 125 °C		0.80	0.90	V
r _F	chiplevel	T _j = 25 °C		120	140	mΩ
	Chiplevel	T _j = 125 °C		160	180	mΩ
I _{RRM}	$I_F = 8 A$	T _j = 125 °C		5.4		А
Q _{rr}	di/dt _{off} = 93 A/μs - V _{GE} = -15 V	T _j = 125 °C		1.9		μC
E _{rr}	$V_{CC} = 600 V$	T _j = 125 °C		0.8		mJ
R _{th(j-s)}	per Diode, $\lambda_{\text{paste}}=0$.8 W/(mK)		2.5		K/W
R _{th(j-s)}	per Diode, $\lambda_{\text{paste}}=2$.5 W/(mK)		2.2		K/W
Diode 7 -	12					
$V_F = V_{EC}$	I _F = 15 A V _{GE} = 0 V chiplevel	T _j = 25 °C		2.38	2.71	V
		T _j = 150 °C		2.44	2.77	V
V _{F0}	chiplevel	T _j = 25 °C		1.30	1.50	V
10		T _j = 150 °C		0.90	1.10	V
r _F	chiployol	T _j = 25 °C		72	81	mΩ
	- chiplevel	T _j = 150 °C		103	111	mΩ
I _{RRM}	I _F = 15 A	T _j = 150 °C		8.9		Α
Q _{rr}	di/dt _{off} = 220 A/µs V _{GE} = -15 V	T _j = 150 °C		2.2		μC
E _{rr}	$V_{CC} = 600 V$	T _j = 150 °C		0.8		mJ
R _{th(j-s)}	per Diode, $\lambda_{\text{paste}}=0$.8 W/(mK)		1.92		K/W
R _{th(j-s)}	per Diode, $\lambda_{\text{paste}}=2$.5 W/(mK)		1.7		K/W
Module	·					•
L _{CE}				60		nH
Ms	to heat sink		2		2.5	Nm
w				30		g
Temperat	ture Sensor					
R ₁₀₀	T _r =100°C (R ₂₅ =10	00Ω)		1670 ± 3%		Ω
R _(T)	$R_{(T)}$ =1000Ω[1+A(T , A = 7.635*10 ⁻³ °C B = 1.731*10 ⁻⁵ °C ⁻²	⁷ -25°C)+B(T-25°C) ²] -¹ °C ⁻¹ , °C ⁻²				

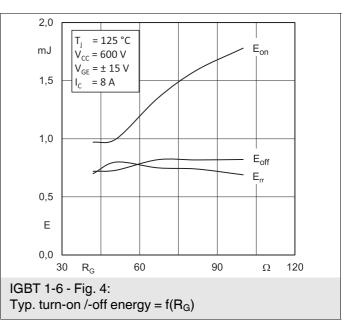


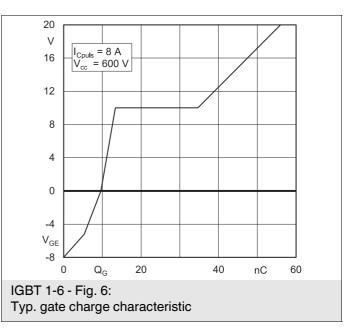




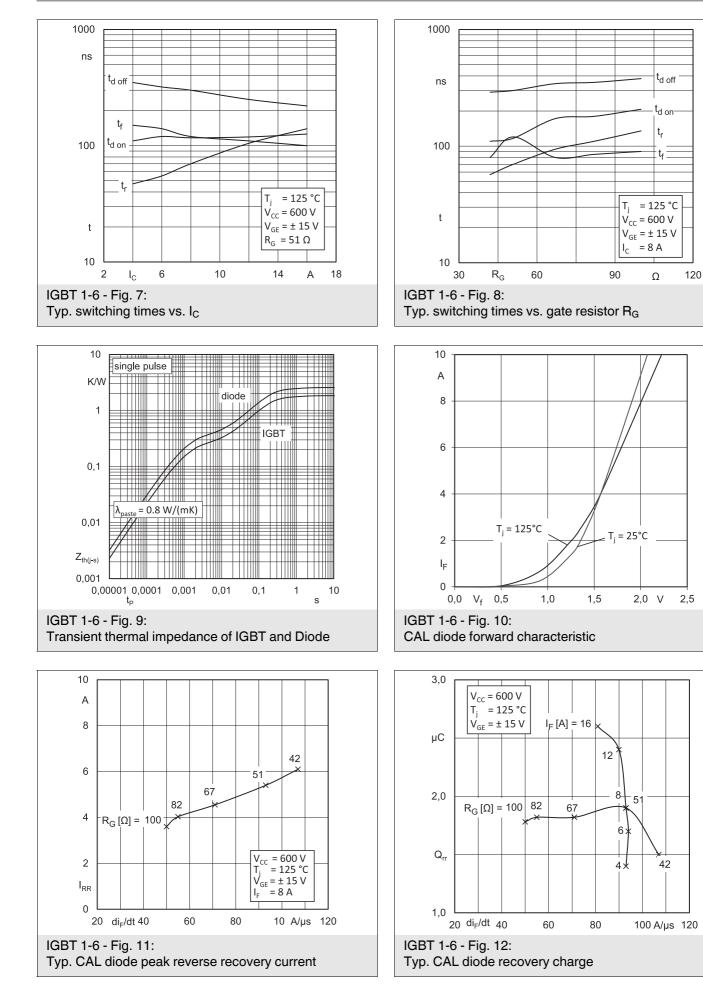




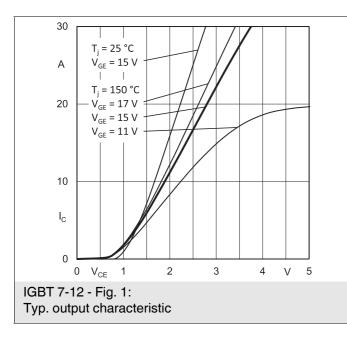


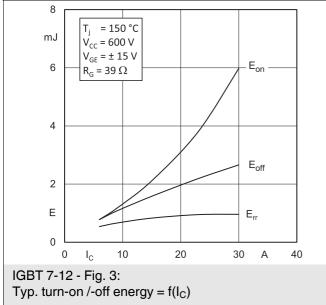


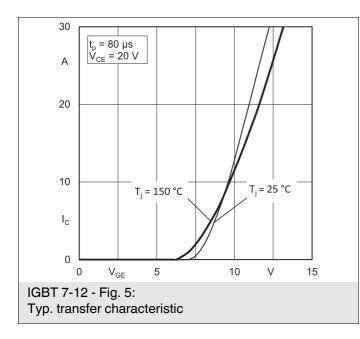
Rev. 6.0 - 21.09.2021

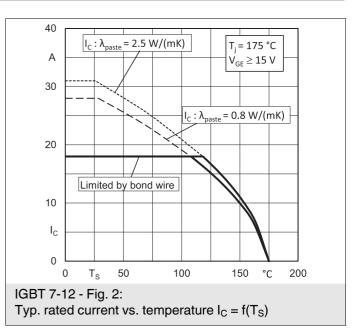


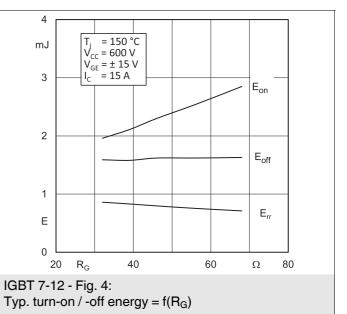
Rev. 6.0 - 21.09.2021

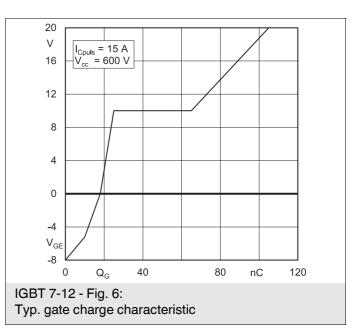


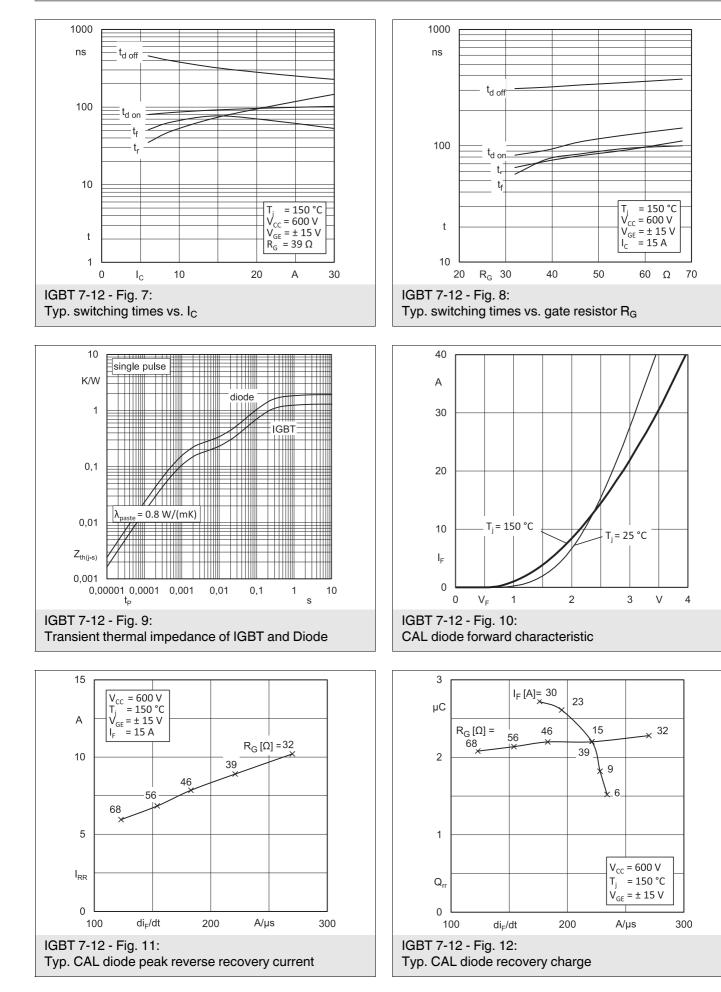






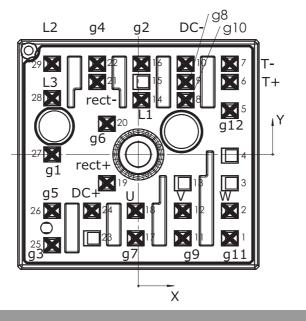




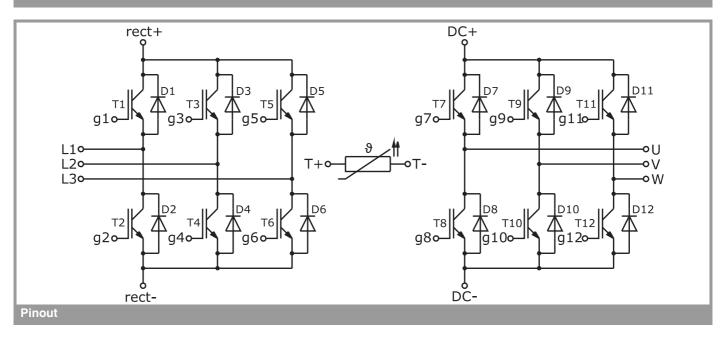


Pin out							
Pin	X	Y	Function	Pin	X	Y	Function
1	15,93	-14,60	g11	16	0,53	15,80	g2
2	15,93	-9,80	W	17	-0,48	-14,6	g7
3	15,93	-5,00		18	-0,48	-9,80	U
4	15,93	-0,20		19	-5,48	-5,00	rect+
5	15,93	7,63	g12	20	-5,48	5,35	g6
6	15,93	12,63	T+	21	-7,18	12,63	rect-
7	15,93	15,80	Т-	22	-7,18	15,80	g4
8	8,23	9,45	g10	23	-8,08	-14,60	
9	8,23	12,63	g8	24	-8,08	-9,80	DC+
10	8,23	15,80	DC-	25	-15,03	-15,80	g3
11	7,73	-14,60	g9	26	-15,03	-9,80	g5
12	7,73	-9,80	V	27	-15,03	0	g1
13	7,73	-5,00		28	-15,03	9,80	L3
14	0,53	9,45	L1	29	-15,03	15,80	L2
15	0,53	12,63					

all values in mm



Pinout and Dimensions



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

***IMPORTANT INFORMATION AND WARNINGS**

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