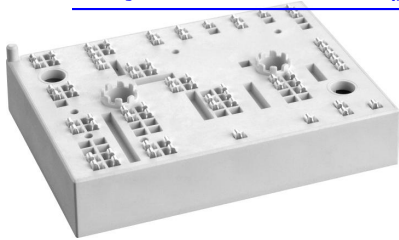


SKiiP 37AC126V2

查询"SKIIIP37AC126V2"供应商



MiniSKiiP® 3

3-phase bridge inverter

SKiiP 37AC126V2

Features

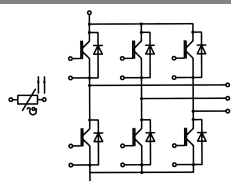
- Fast Trench IGBTs
- Robust and soft freewheeling diodes in CAL technology
- Highly reliable spring contacts for electrical connections
- UL recognised file no. E63532

Typical Applications

- Inverter up to 35 kVA
- Typical motor power 18,5 kW

Remarks

- V_{CEsat} , V_F = chip level value

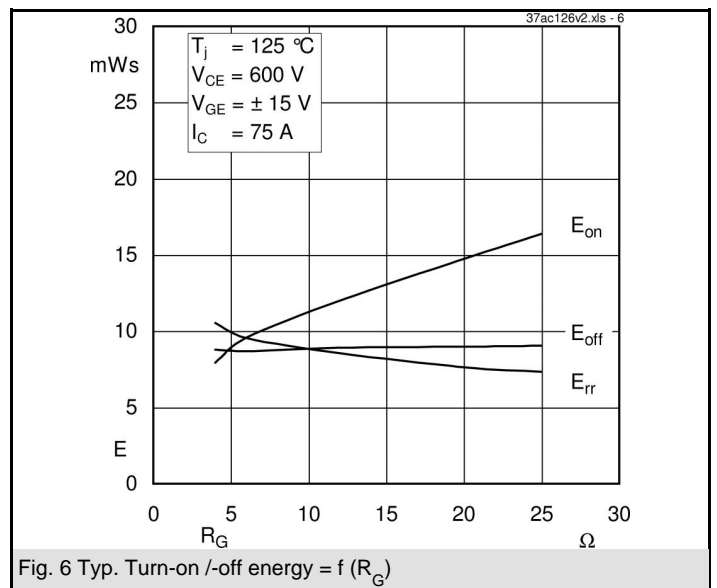
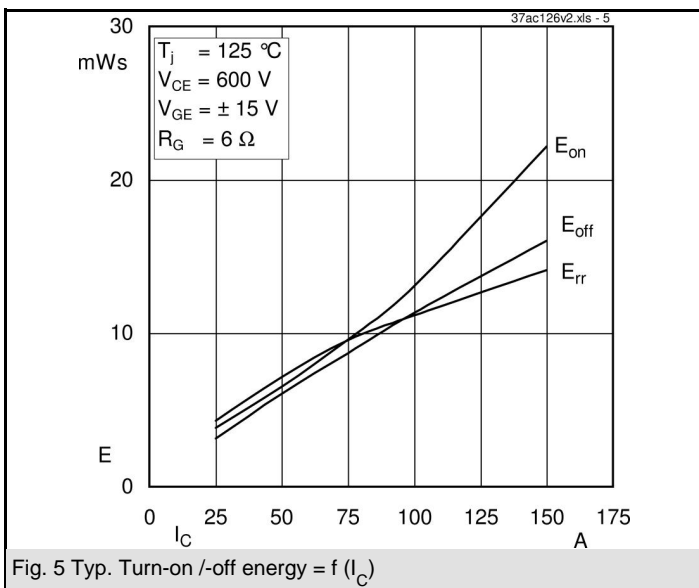
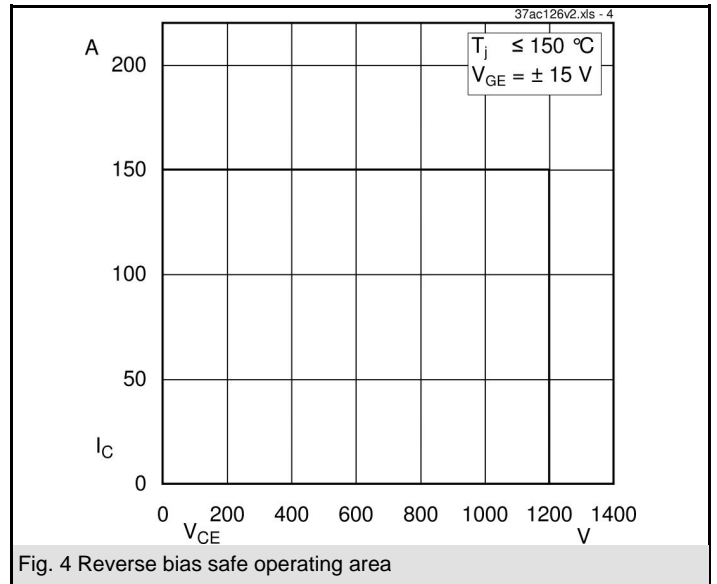
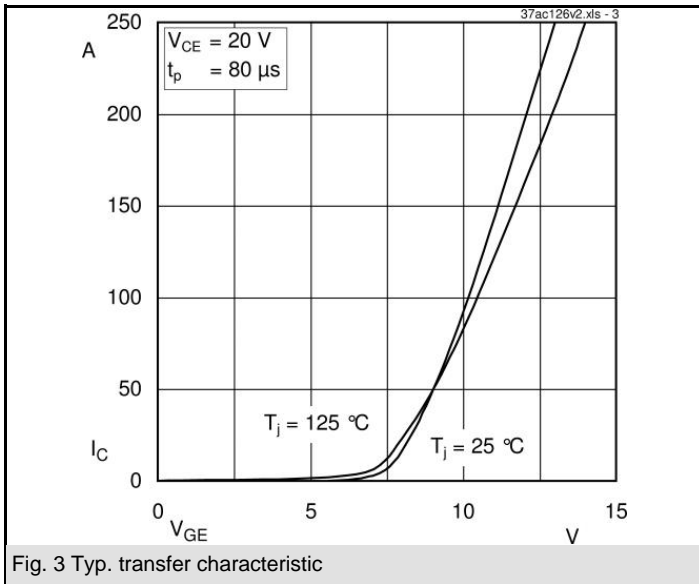
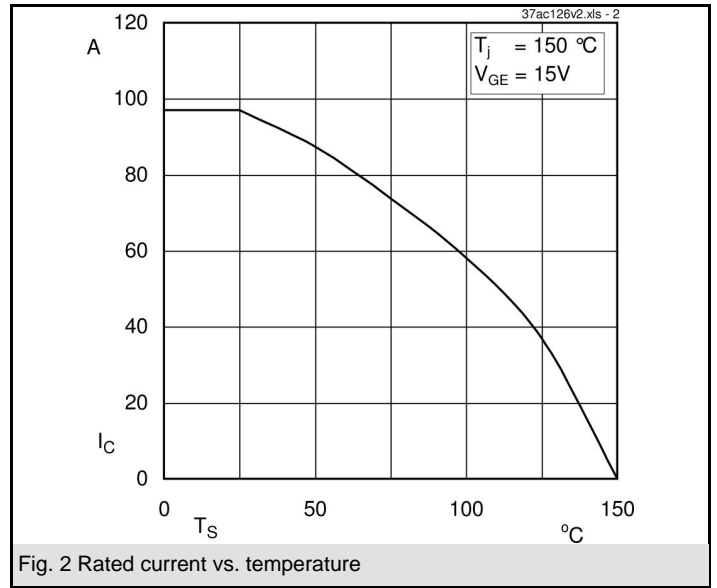
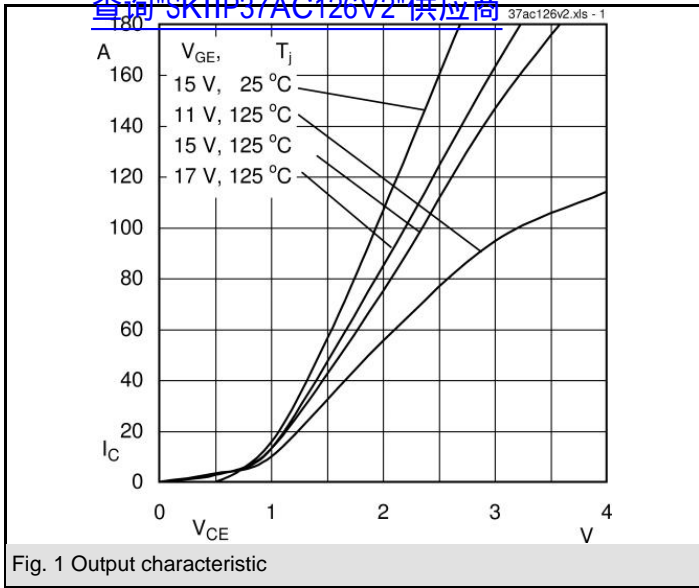


AC

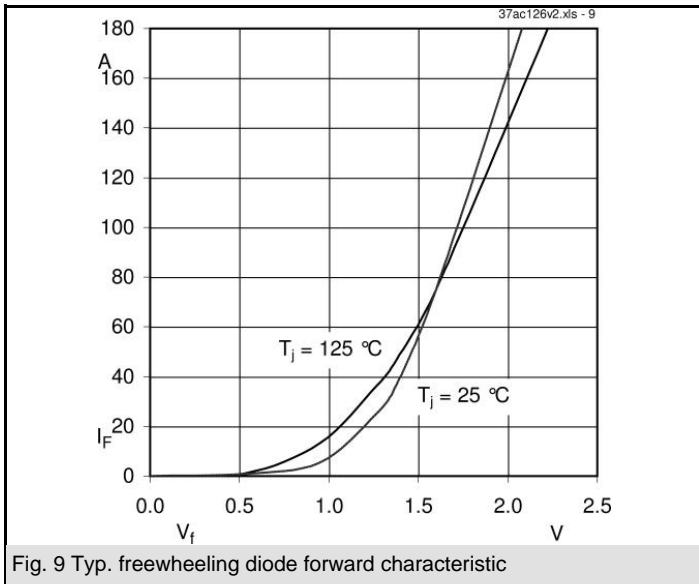
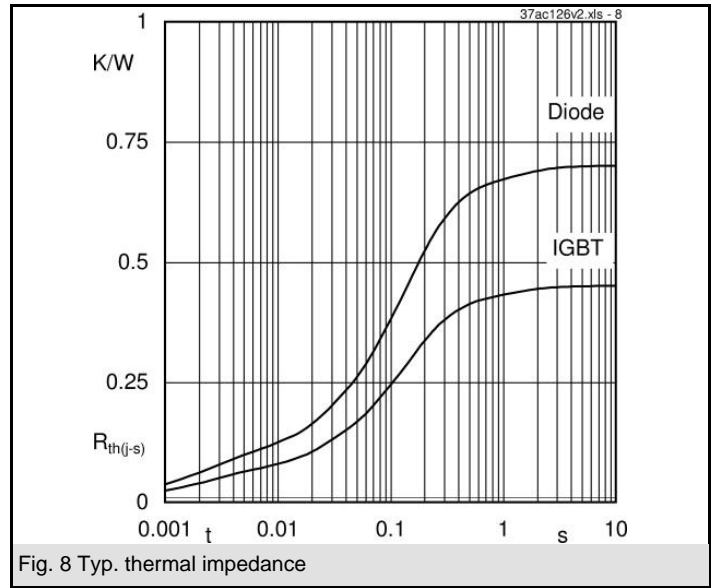
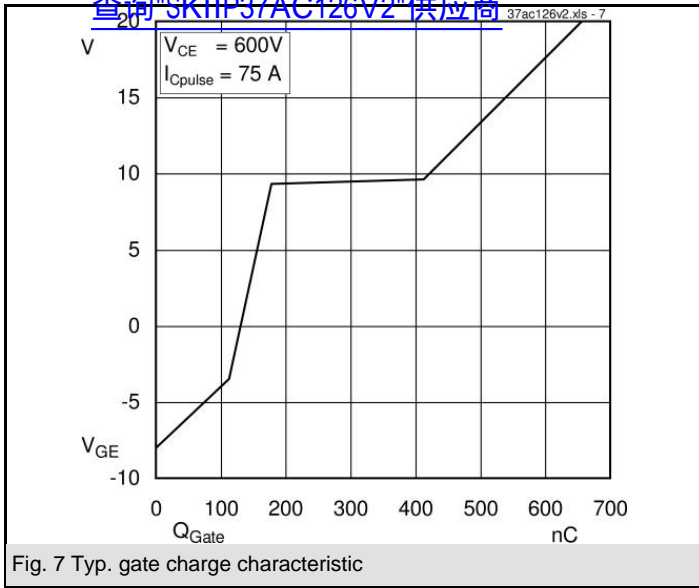
Absolute Maximum Ratings		$T_s = 25\text{ °C}$, unless otherwise specified	
Symbol	Conditions	Values	Units
IGBT - Inverter			
V_{CES}	$T_s = 25\text{ (70) °C}$ $t_p \leq 1\text{ ms}$	1200	V
I_C		97 (73)	A
I_{CRM}		150	A
V_{GES}		± 20	V
T_j		- 40 ... + 150	°C
Diode - Inverter			
I_F	$T_s = 25\text{ (70) °C}$ $t_p \leq 1\text{ ms}$	90 (67)	A
I_{FRM}		150	A
T_j		- 40 ... + 150	°C
I_{tRMS}	per power terminal (20 A / spring)	160	A
T_{stg}	$T_{op} \leq T_{stg}$	- 40 ... + 125	°C
V_{isol}	AC, 1 min.	2500	V

Characteristics		$T_s = 25\text{ °C}$, unless otherwise specified			
Symbol	Conditions	min.	typ.	max.	Units
IGBT - Inverter					
V_{CEsat}	$I_{Cnom} = 75\text{ A}$, $T_j = 25\text{ (125) °C}$		1,7 (2)	2,1 (2,4)	V
$V_{GE(th)}$	$V_{GE} = V_{CE}$, $I_C = 3\text{ mA}$	5	5,8	6,5	V
$V_{CE(TO)}$	$T_j = 25\text{ (125) °C}$		1 (0,9)	1,2 (1,1)	V
r_T	$T_j = 25\text{ (125) °C}$		9,3 (15)	12 (17)	mΩ
C_{ies}	$V_{CE} = 25\text{ V}$, $V_{GE} = 0\text{ V}$, $f = 1\text{ MHz}$		5,5		nF
C_{oes}	$V_{CE} = 25\text{ V}$, $V_{GE} = 0\text{ V}$, $f = 1\text{ MHz}$		1,2		nF
C_{res}	$V_{CE} = 25\text{ V}$, $V_{GE} = 0\text{ V}$, $f = 1\text{ MHz}$		1		nF
$R_{th(j-s)}$	per IGBT		0,45		K/W
$t_{d(on)}$	under following conditions		84		ns
t_r	$V_{CC} = 600\text{ V}$, $V_{GE} = \pm 15\text{ V}$		25		ns
$t_{d(off)}$	$I_{Cnom} = 75\text{ A}$, $T_j = 125\text{ °C}$		430		ns
t_f	$R_{Gon} = R_{Goff} = 6\text{ Ω}$		90		ns
E_{on}	inductive load		9,6		mJ
E_{off}			8,7		mJ
Diode - Inverter					
$V_F = V_{EC}$	$I_{Fnom} = 75\text{ A}$, $T_j = 25\text{ (125) °C}$		1,6 (1,6)	1,8 (1,8)	V
$V_{(TO)}$	$T_j = 25\text{ (125) °C}$		1 (0,8)	1,1 (0,9)	V
r_T	$T_j = 25\text{ (125) °C}$		8 (10)	9,3 (12)	mΩ
$R_{th(j-s)}$	per diode		0,7		K/W
I_{RRM}	under following conditions		180		A
Q_{rr}	$I_{Fnom} = 75\text{ A}$, $V_R = 600\text{ V}$		21,2		μC
E_{rr}	$V_{GE} = 0\text{ V}$, $T_j = 125\text{ °C}$ $di_F/dt = 3800\text{ A/μs}$		9,6		mJ
Temperature Sensor					
R_{ts}	3 %, $T_r = 25\text{ (100) °C}$		1000(1670)		Ω
Mechanical Data					
m			95		g
M_s	Mounting torque	2		2,5	Nm

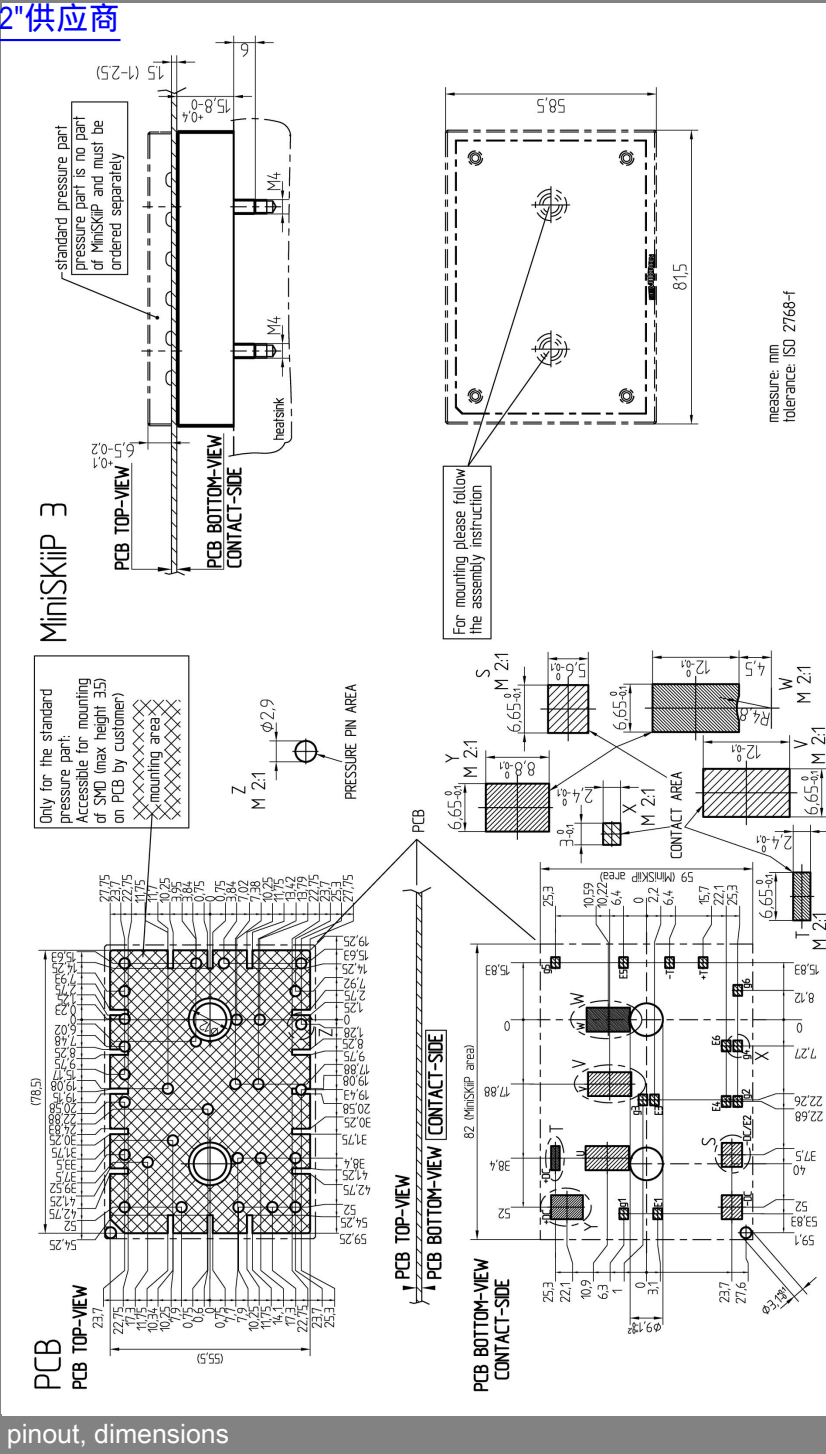
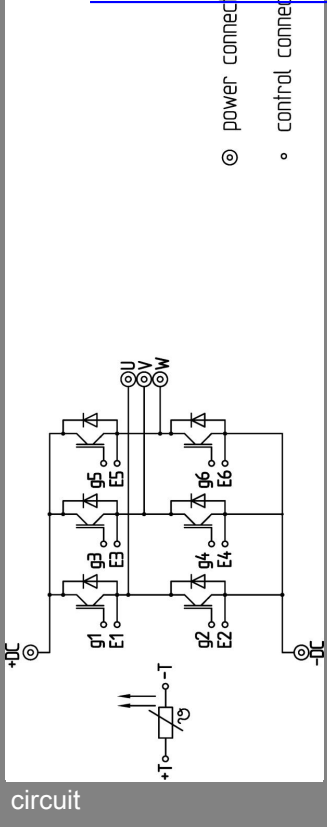
查询"SKiiP37AC126V2"供应商



查询"SKiiP37AC126V2"供应商



查询"SKiiP37AC126V2"供应商



These documents are Semikron property. Semikron reserves all copyrights. All copies and transmitting of this information requires the written permission of Semikron. Semikron reserves all rights.

This is an electrostatic discharge sensitive device (ESDS), international standard IEC 60747-1, Chapter IX.

This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.