

модуль semikron, igbt, мост диодный Минск +375447584780  
**www.fotorele.net www.tiristor.by радиодетали, электронные компоненты**  
**email minsk17@tut.by tel.+375 29 758 47 80 МТС**

Мы не работаем с частными (физическими) лицами.

Мы работаем только с юридическими лицами(организациями) и ИП и только по безналичному расчёту.

**каталог, описание, технические, характеристики, datasheet, параметры, маркировка, габариты, фото**

# КАТАЛОГ SEMIKRON 2017/2018 МИНСК

## модуль semikron, igbt, мост диодный

купить, продажа

MiniSKiP



SEMTOP



SEMTRAN 3



SEMIX



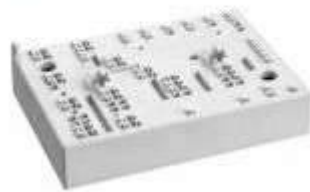
SKiM



### Full SiC



### Hybrid SiC



### SKiIP



SEMPACK



10  
7  
9  
V  
C  
R  
C

SEMTOP



T  
E  
T  
D  
S  
R

SEMIX

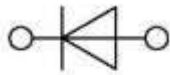


2  
4  
5  
T  
4  
4  
R

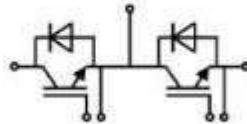
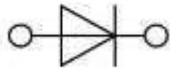
SEMISTART



10  
V  
V  
R  
R  
C



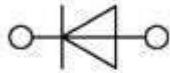
### Power Bridge Rectifiers



### SEMISTACK Classics



### SEMPONT



### SEMITEACH



### SEMIX



### PT 22b3 RoHS

Pulse Transformer

Part Number: 97492890

Manufacturer: SEMIKRON

[datasheet](#)

[Product Details >>](#)

● Current delivery time approx. 10 weeks



### Axial fan 230V 119x38m 150m3/h

Fan

V 230 V

Part Number: 30031061

Manufacturer: SEMIKRON

[datasheet](#)



## Thermal paste P12

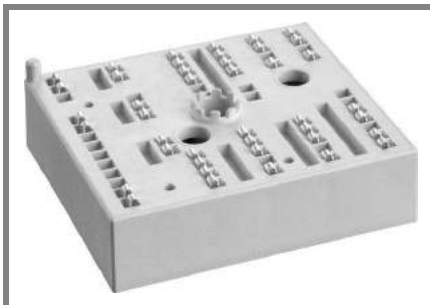
Thermal paste

Part Number: 31867700

Manufacturer: SEMIKRON

 [datasheet](#)

# SKiiP 28ANB16V10



## MiniSKiiP® 2

3-phase bridge rectifier +  
brake chopper

SKiiP 28ANB16V10

Target Data

### Features

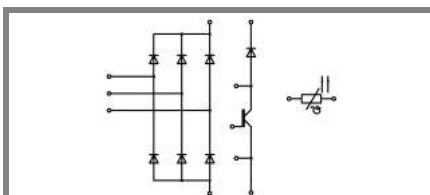
- Fast Trench IGBTs
- Robust and soft freewheeling diodes in CAL technology
- Highly reliable spring contacts for electrical connections
- UL recognised file no. E63532

### Typical Applications\*

- Input bridge for Inverter up to 39 kVA

### Remarks

- $V_{CEsat}$ ,  $V_F$  = chip level value



ANB

Absolute Maximum Ratings		$T_s = 25\text{ °C}$ , unless otherwise specified		
Symbol	Conditions	Values	Units	
<b>IGBT - Chopper</b>				
$V_{CES}$	$T_s = 25\text{ (70) °C}$	1200	V	
$I_C$		118 (88)	A	
$I_{CRM}$		210	A	
$V_{GES}$		$\pm 20$	V	
$T_j$		- 40 ... + 150	°C	
<b>Diode - Chopper</b>				
$I_F$	$T_s = 25\text{ (70) °C}$	118 (88)	A	
$I_{FRM}$		210	A	
$T_j$		- 40 ... + 150	°C	
<b>Diode - Rectifier</b>				
$V_{RRM}$	$T_s = 70\text{ °C}$	1600	V	
$I_F$		83	A	
$I_{FSM}$		$t_p = 10\text{ ms, sin } 180\text{ °, } T_j = 25\text{ °C}$	1000	A
$i^2t$		$t_p = 10\text{ ms, sin } 180\text{ °, } T_j = 25\text{ °C}$	6600	A <sup>2</sup> s
$T_j$		- 40 ... + 150	°C	
<b>Module</b>				
$I_{RMS}$	per power terminal (20 A / spring)	80	A	
$T_{stg}$		- 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
<b>IGBT - Chopper</b>					
$V_{CEsat}$	$I_{Cnom} = 105\text{ A, } T_j = 25\text{ (125) °C}$		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
$r_T$	$T_j = 25\text{ (125) °C}$		6,7 (10)	8,6 (12)	mΩ
$C_{ies}$	$V_{CE} = 25\text{ V, } V_{GE} = 0\text{ V, } f = 1\text{ MHz}$		8,4		nF
$C_{oes}$	$V_{CE} = 25\text{ V, } V_{GE} = 0\text{ V, } f = 1\text{ MHz}$		1,5		nF
$C_{res}$	$V_{CE} = 25\text{ V, } V_{GE} = 0\text{ V, } f = 1\text{ MHz}$		1,1		nF
$R_{th(j-s)}$	per IGBT		0,4		K/W
$t_{d(on)}$	under following conditions		65		ns
$t_r$	$V_{CC} = 600\text{ V, } V_{GE} = \pm 15\text{ V}$		30		ns
$t_{d(off)}$	$I_{Cnom} = 105\text{ A, } T_j = 125\text{ °C}$		465		ns
$t_f$	$R_{Gon} = R_{Goff} = 5,1\text{ Ω}$		95		ns
$E_{on}$	inductive load		10,1		mJ
$E_{off}$			13,6		mJ
<b>Diode - Chopper</b>					
$V_F = V_{EC}$	$I_{Fnom} = 105\text{ A, } T_j = 25\text{ (125) °C}$		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
$r_T$	$T_j = 25\text{ (125) °C}$		5,7 (7,6)	6,7 (8,6)	mΩ
$R_{th(j-s)}$	per diode		0,55		K/W
$I_{RRM}$	under following conditions		180		A
$Q_{rr}$	$I_{Fnom} = 105\text{ A, } V_R = 600\text{ V}$		26		μC
$E_{rr}$	$V_{GE} = 0\text{ V, } T_j = 125\text{ °C}$		11,8		mJ
	$di_F/dt = 4350\text{ A/μs}$				
<b>Diode - Rectifier</b>					
$V_F$	$I_{Fnom} = 75\text{ A, } T_j = 25\text{ °C}$		1,2		V
$V_{(TO)}$	$T_j = 150\text{ °C}$		0,8		V
$r_T$	$T_j = 150\text{ °C}$		7		mΩ
$R_{th(j-s)}$	per diode		0,7		K/W
<b>Temperature Sensor</b>					
$R_{ts}$	3 %, $T_r = 25\text{ (100) °C}$		1000(1670)		Ω
<b>Mechanical Data</b>					
w			65		g
$M_s$	Mounting torque	2		2,5	Nm

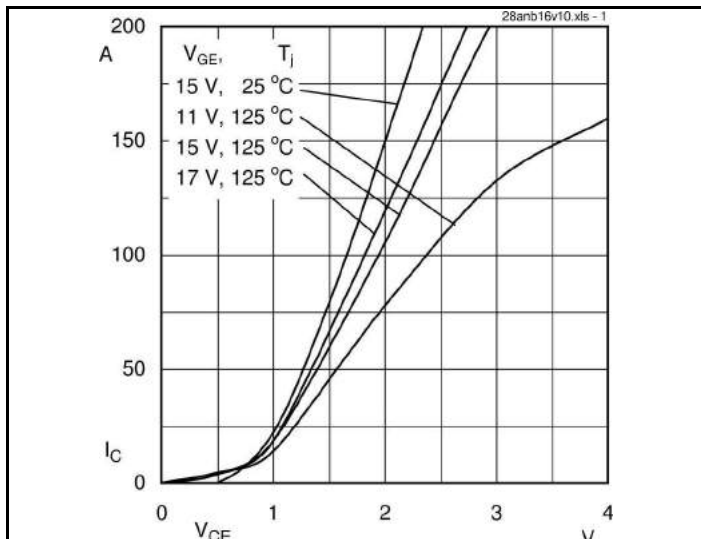


Fig. 1 Typ. output characteristic

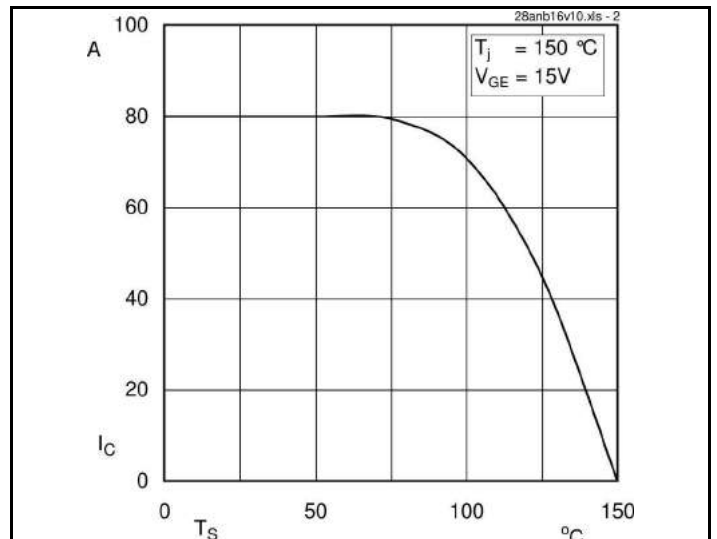


Fig. 2 Typ. rated current vs. temperature

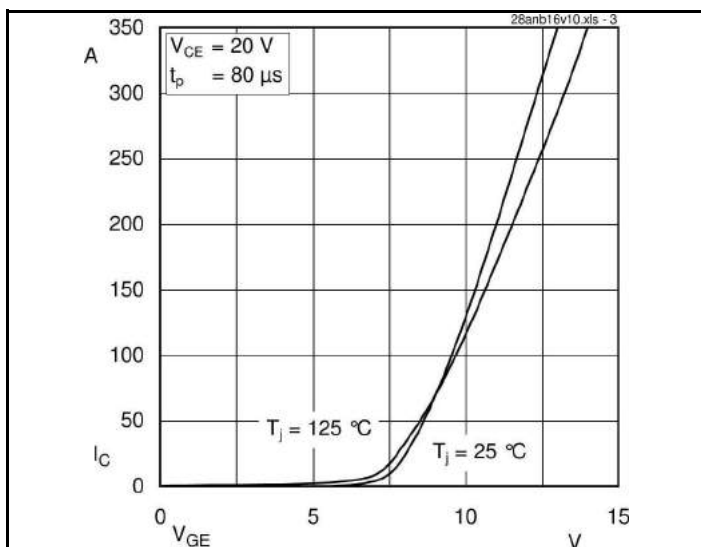


Fig. 3 Typ. transfer characteristic

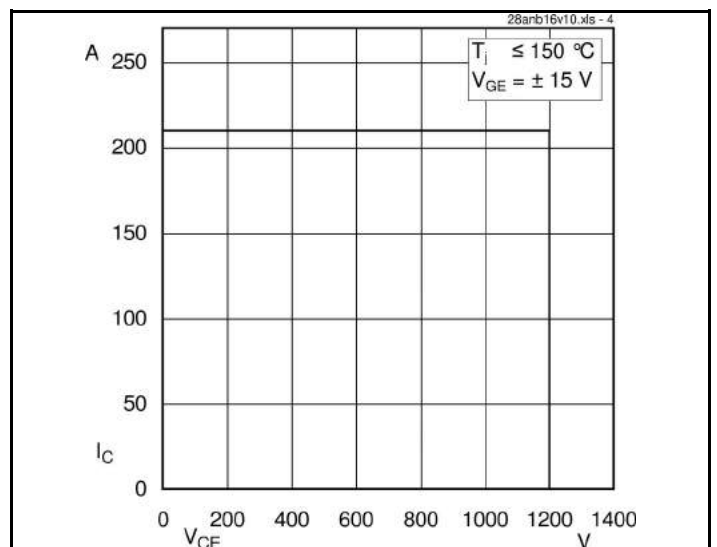


Fig. 4 Reverse bias safe operating area

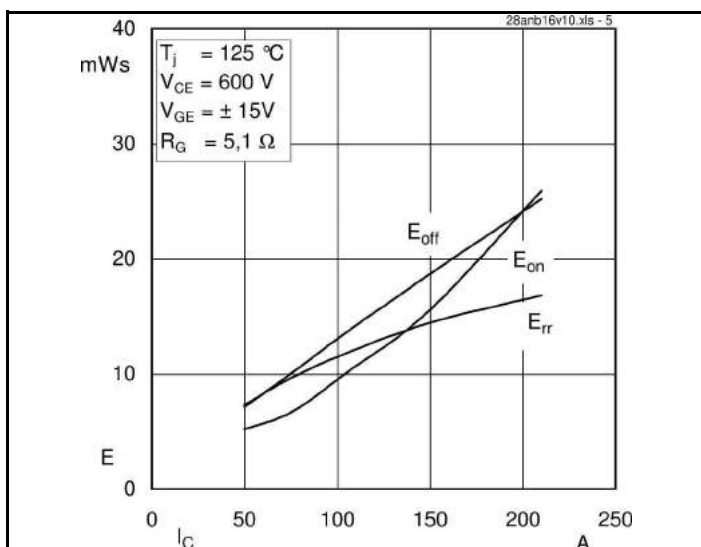


Fig. 5 Typ. Turn-on /-off energy =  $f(I_C)$

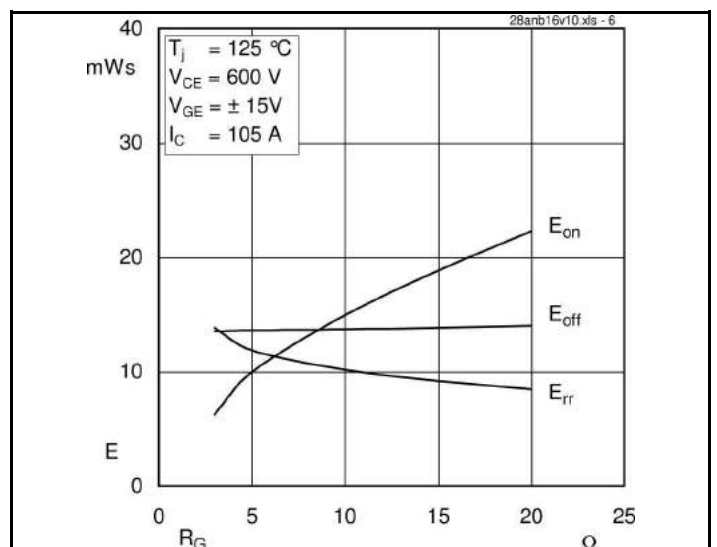


Fig. 6 Typ. Turn-on /-off energy =  $f(R_G)$

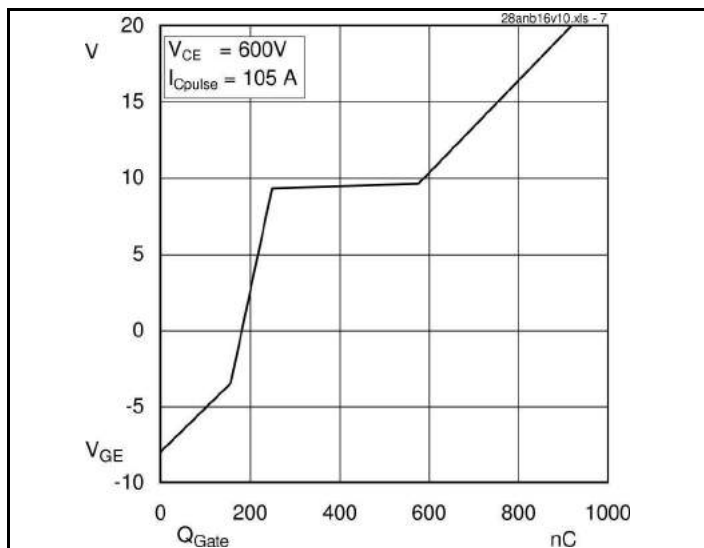


Fig. 7 Typ. gate charge characteristic

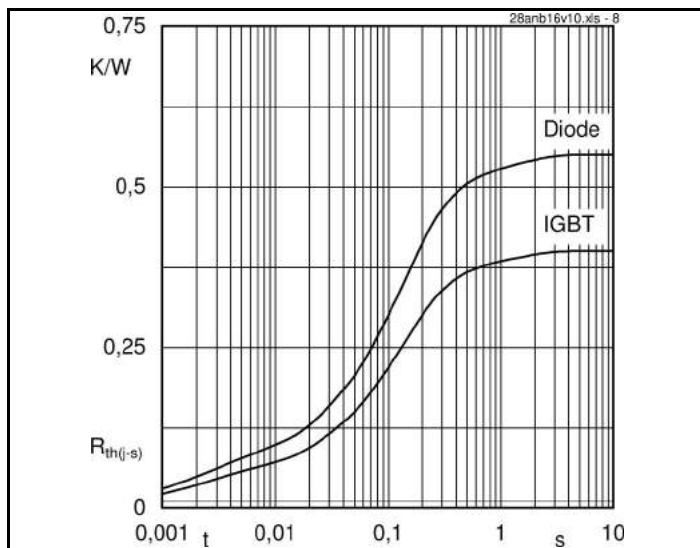


Fig. 8 Typ. thermal impedance

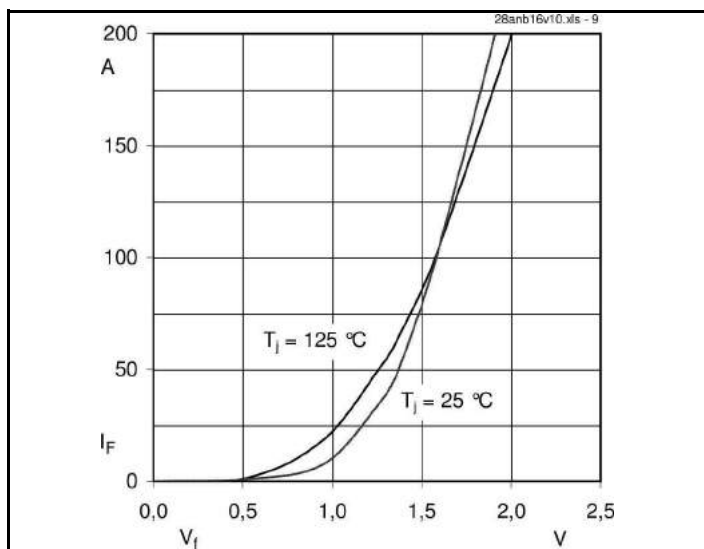


Fig. 9 Typ. freewheeling diode forward characteristic

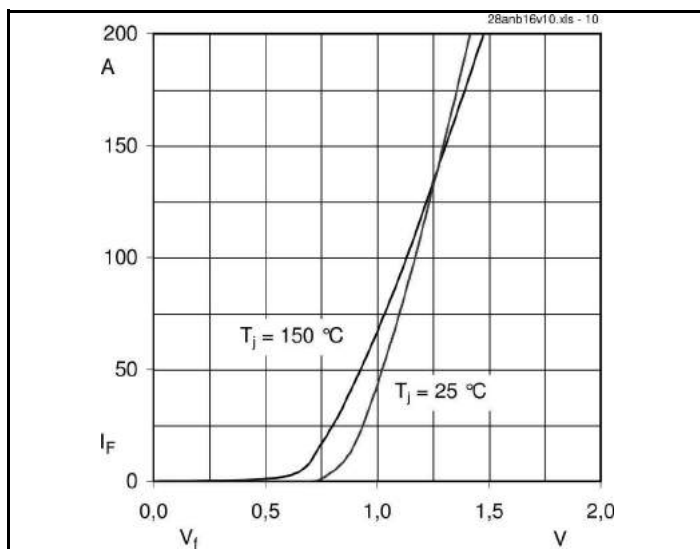


Fig. 10 Typ. input bridge forward characteristic





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10  
7  
9  
V  
C  
R  
C

SEMTOP



Full SiC



SEMTOP



1  
T  
R  
1  
D  
S  
R

SEMTRAN 3



SEMIX



1  
S  
T  
V  
C  
R

SEMIX



Hybrid SiC



SKiiP



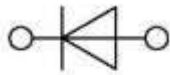
SEMISTART



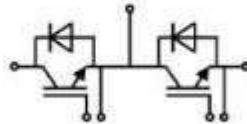
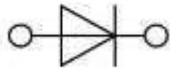
1  
V  
V  
R  
C

SKiM





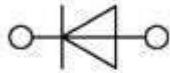
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Thermal paste

Part Number: 31867700

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