

SKiiP 13AC12T4V1

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MiniSKiiP®1

3-phase bridge inverter

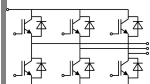
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Target Data

Features

- Trench 4 IGBT's
- Robust and soft freewheeling diodes in CAL technology
- Highly reliable spring contacts for electrical connections
- UL recognised file no. E63532

Typical Applications

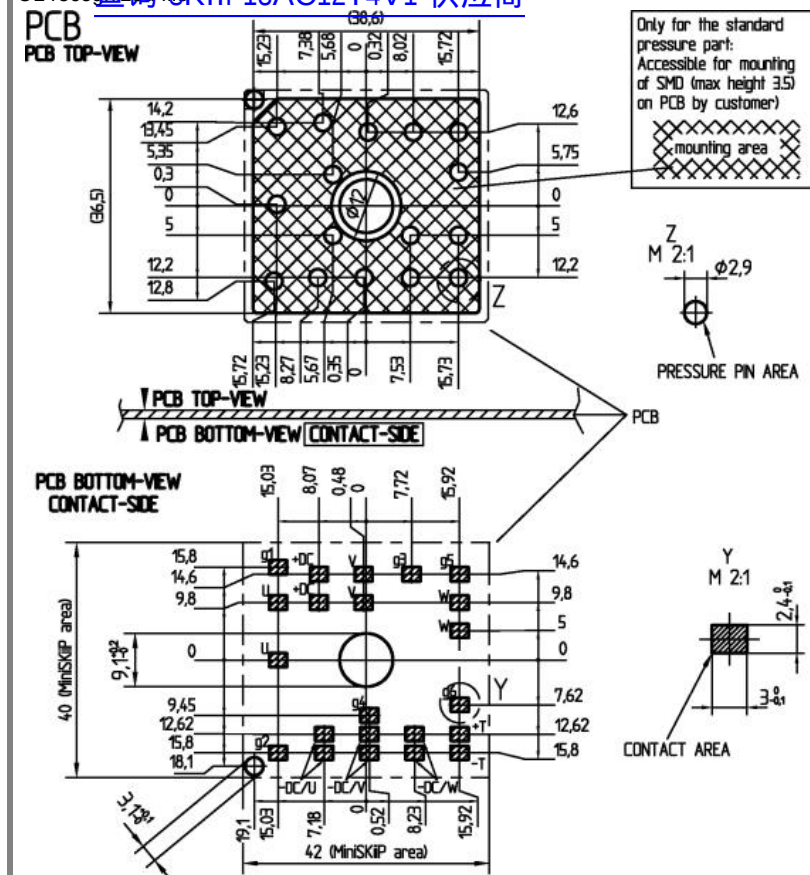


AC

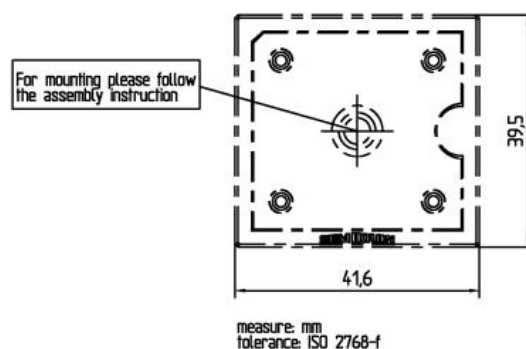
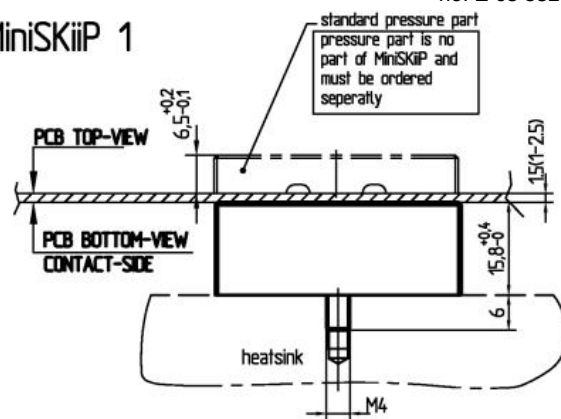
应用

Absolute Maximum Ratings			$T_c = 25\text{ }^{\circ}\text{C}$, unless otherwise specified	
Symbol	Conditions		Values	Units
IGBT				
V_{CES}	$T_j = 25\text{ }^{\circ}\text{C}$		1200	V
I_C	$T_j = 175\text{ }^{\circ}\text{C}$	$T_c = 25\text{ }^{\circ}\text{C}$	44	A
		$T_c = 70\text{ }^{\circ}\text{C}$	35	A
I_{CRM}	$I_{CRM} = 3 \times I_{Cnom}$		75	A
V_{GES}			± 20	V
t_{psc}	$V_{CC} = 600\text{ V}$; $V_{GE} \leq 20\text{ V}$; $T_j = 150\text{ }^{\circ}\text{C}$ $V_{CES} < 1200\text{ V}$		10	μs
Inverse Diode				
I_F	$T_j = 175\text{ }^{\circ}\text{C}$	$T_c = 25\text{ }^{\circ}\text{C}$	30	A
		$T_c = 70\text{ }^{\circ}\text{C}$	24	A
I_{FRM}	$I_{CRM} = 3 \times I_{Cnom}$		75	A
I_{FSM}	$t_p = 10\text{ ms}$; sin.	$T_j = 150\text{ }^{\circ}\text{C}$	100	A
Module				
$I_{t(RMS)}$			40	A
T_{vj}			-40...+175	$^{\circ}\text{C}$
T_{stg}			-40...+125	$^{\circ}\text{C}$
V_{isol}	AC, 1 min.		2500	V

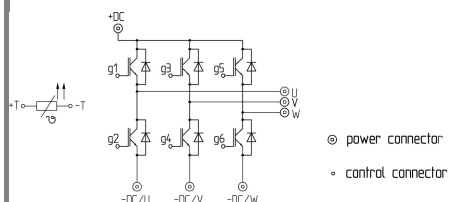
Characteristics			T _c = 25 °C, unless otherwise specified			
Symbol	Conditions		min.	typ.	max.	Units
IGBT						
V _{GE(th)}	V _{GE} = V _{CE} , I _C = mA		5	5,8	6,5	V
I _{CES}	V _{GE} = V, V _{CE} = V _{CES} T _j = °C					mA
V _{CE0}	T _j = 25 °C			1,1	1,3	V
	T _j = 150 °C			1	1,2	V
r _{CE}	V _{GE} = 15 V T _j = 25°C			30	30	mΩ
	T _j = 150°C			50	50	mΩ
V _{CE(sat)}	I _{Cnom} = 25 A, V _{GE} = 15 V T _j = 25°C _{chiplev.}			1,85	2,05	V
	T _j = 150°C _{chiplev.}			2,25	2,45	V
C _{ies}	V _{CE} = , V _{GE} = V f = MHz					nF
C _{oes}						nF
C _{res}						nF
R _{Gint}	T _j = 25 °C		0			Ω
t _{d(on)}	R _{Gon} =	V _{CC} = 600V I _{Cnom} = 25A	3			ns
t _r						ns
E _{on}						mJ
t _{d(off)}	R _{Goff} =	T _j = 150 °C V _{GE} = ±15V	2			ns
t _f						ns
E _{off}						mJ
R _{th(j-s)}	per IGBT		0,96			K/W



MiniSKiIP 1



case



pinout