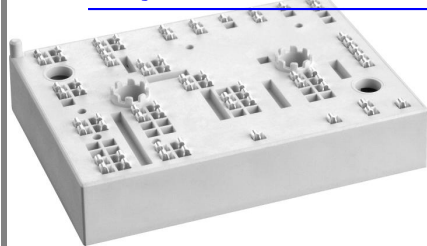


SKiiP 37AC12T4V1

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MiniSKiiP®3

3-phase bridge inverter

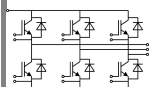
SKiiP 37AC12T4V1

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



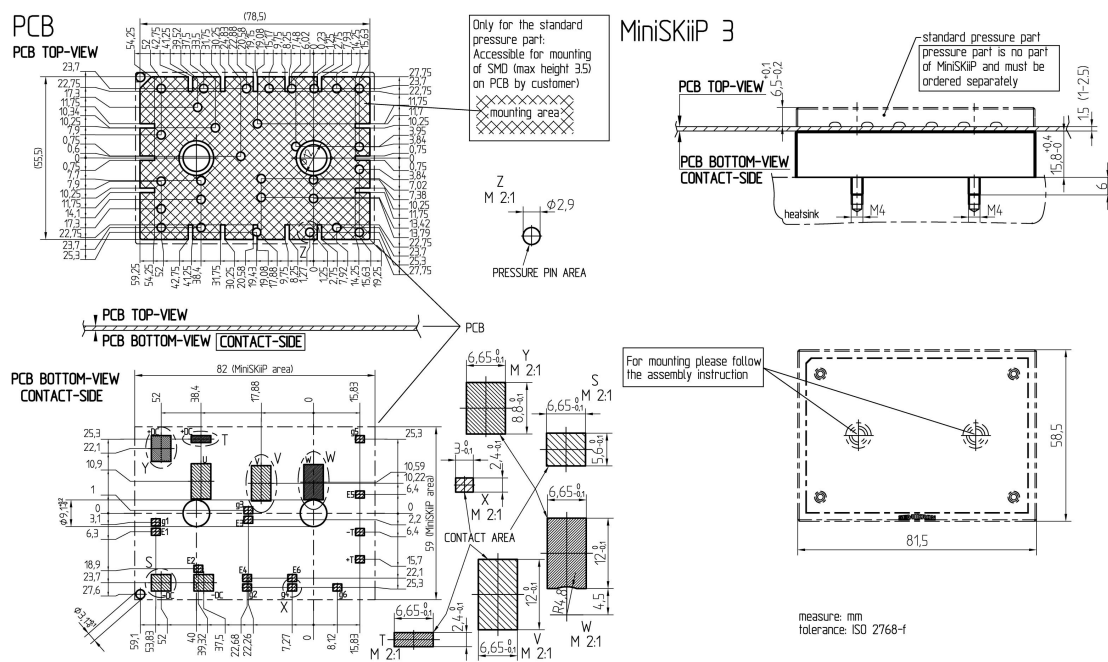
AC

应用

Absolute Maximum Ratings		$T_s = 25\text{ }^{\circ}\text{C}$, unless otherwise specified		
Symbol	Conditions	Values	Units	
IGBT				
V_{CES}	$T_j = 25\text{ }^{\circ}\text{C}$	1200	V	
I_C	$T_j = 175\text{ }^{\circ}\text{C}$	$T_c = 25\text{ }^{\circ}\text{C}$	98	A
		$T_c = 70\text{ }^{\circ}\text{C}$	78	A
I_{CRM}	$I_{CRM} = 3 \times I_{Cnom}$	225	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	$T_j = 175\text{ }^{\circ}\text{C}$	$T_c = 25\text{ }^{\circ}\text{C}$	82	A
		$T_c = 70\text{ }^{\circ}\text{C}$	65	A
I_{FRM}	$I_{CRM} = 3 \times I_{Cnom}$	225	A	
I_{FSM}	$t_p = 10\text{ ms}; \sin$	$T_j = 150\text{ }^{\circ}\text{C}$	425	A
Module				
$I_{t(RMS)}$		160	A	
T_{vj}		$-40 \dots +150$	$^{\circ}\text{C}$	
T_{stg}		$-40 \dots +125$	$^{\circ}\text{C}$	
V_{isol}	AC, 1 min.	2500	V	

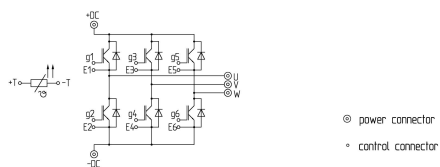
Characteristics		$T_s = 25\text{ °C}$, unless otherwise specified			
Symbol	Conditions	min.	typ.	max.	Units
IGBT					
$V_{GE(th)}$	$V_{GE} = V_{CE}$, $I_C = \text{mA}$	5	5,8	6,5	V
I_{CES}	$V_{GE} = V$, $V_{CE} = V_{CES}$ $T_j = \text{°C}$				mA
V_{CE0}			$T_j = 25\text{ °C}$	1,1	V
			$T_j = 150\text{ °C}$	1	V
r_{CE}	$V_{GE} = 15\text{ V}$		$T_j = 25\text{ °C}$	10	mΩ
			$T_j = 150\text{ °C}$	17	mΩ
$V_{CE(sat)}$	$I_{Cnom} = 75\text{ A}$, $V_{GE} = 15\text{ V}$		$T_j = 25\text{ °C}_{chiplev.}$	1,85	V
			$T_j = 150\text{ °C}_{chiplev.}$	2,25	V
C_{ies}	$V_{CE} = \text{ , } V_{GE} = V$ $f = \text{MHz}$				nF
C_{oes}					nF
C_{res}					nF
R_{Gint}	$T_j = 25\text{ °C}$		10		Ω
$t_{d(on)}$	$R_{Gon} = 1\text{ Ω}$				ns
t_r					ns
E_{on}	$R_{Goff} = 1\text{ Ω}$			11,5	mJ
$t_{d(off)}$					ns
t_f					ns
E_{off}				7,3	mJ
$R_{th(j-s)}$	per IGBT		0,52		K/W

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