

SKiiP 26AC12T4V1

查询"SKIIIP26AC12T4V1"供应商



MiniSKiiP[®]2

3-phase bridge inverter

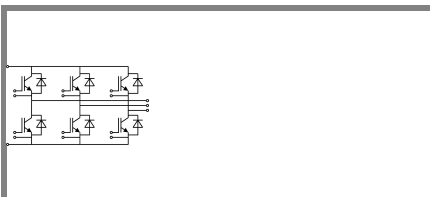
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Target Data

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

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	$T_j = 175\text{ }^\circ\text{C}$	$T_c = 25\text{ }^\circ\text{C}$	96		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	$T_j = 175\text{ }^\circ\text{C}$	$T_c = 25\text{ }^\circ\text{C}$	83		A
		$T_c = 70\text{ }^\circ\text{C}$	66		A
I_{FRM}	$I_{CRM} = 3 \times I_{Cnom}$	225			A
I_{FSM}	$t_p = 10\text{ ms}; \text{sin.}$	$T_j = 150\text{ }^\circ\text{C}$	429		A
Module					
$I_{t(RMS)}$		100			A
T_{vj}		-40...+175			$^\circ\text{C}$
T_{stg}		-40...+125			$^\circ\text{C}$
V_{isol}	AC, 1 min.	2500			V

Characteristics		$T_c = 25\text{ }^\circ\text{C}$, 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}	$V_{GE} = V, V_{CE} = V_{CES}, T_j = \text{ }^\circ\text{C}$				mA
V_{CE0}		$T_j = 25\text{ }^\circ\text{C}$	1,1	1,3	V
		$T_j = 150\text{ }^\circ\text{C}$	1	1,2	V
r_{CE}	$V_{GE} = 15\text{ V}$	$T_j = 25\text{ }^\circ\text{C}$	10	10	$\text{m}\Omega$
		$T_j = 150\text{ }^\circ\text{C}$	17	17	$\text{m}\Omega$
$V_{CE(sat)}$	$I_{Cnom} = 75\text{ A}, V_{GE} = 15\text{ V}$	$T_j = 25\text{ }^\circ\text{C}_{chiplev.}$	1,85	2,05	V
		$T_j = 150\text{ }^\circ\text{C}_{chiplev.}$	2,25	2,45	V
C_{res}	$V_{CE} = , V_{GE} = V$	$f = \text{MHz}$			nF
C_{oes}					nF
C_{res}					nF
R_{Gint}	$T_j = 25\text{ }^\circ\text{C}$	0			Ω
$t_{d(on)}$	$R_{Gon} =$	$V_{CC} = 600\text{ V}$ $I_{Cnom} = 75\text{ A}$ $T_j = 150\text{ }^\circ\text{C}$ $V_{GE} = \pm 15\text{ V}$	8,5		ns
t_r					ns
E_{on}					mJ
$t_{d(off)}$	$R_{Goff} =$				ns
t_f					ns
E_{off}					mJ
$R_{th(j-s)}$	per IGBT	0,52			K/W

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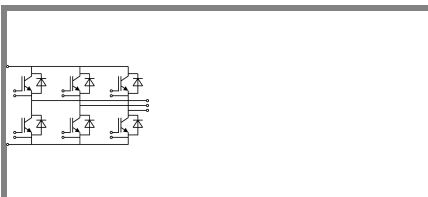
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AC

Characteristics		min.	typ.	max.	Units
Inverse Diode					
$V_F = V_{EC}$	$I_{Fnom} = 75 \text{ A}; V_{GE} = V$		2,2	2,5	V
			2,1	2,45	V
V_{F0}			1,3	1,5	V
			0,9	1,1	V
r_F			12	13	mΩ
			15	18	mΩ
I_{RRM}	$I_{Fnom} = A$				A
Q_{rr}					μC
E_{rr}	$V_{GE} = \pm 15V$		5,6		mJ
$R_{th(j-s)}$	per diode		0,74		K/W
M_s	to heat sink				Nm
M_t	to terminals	2		2,5	Nm
w			65		g
Temperature sensor					
R_{ts}	3%, $T_r = 25^\circ\text{C}$		1000		Ω
R_{ts}	3%, $T_r = 100^\circ\text{C}$		1670		Ω

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

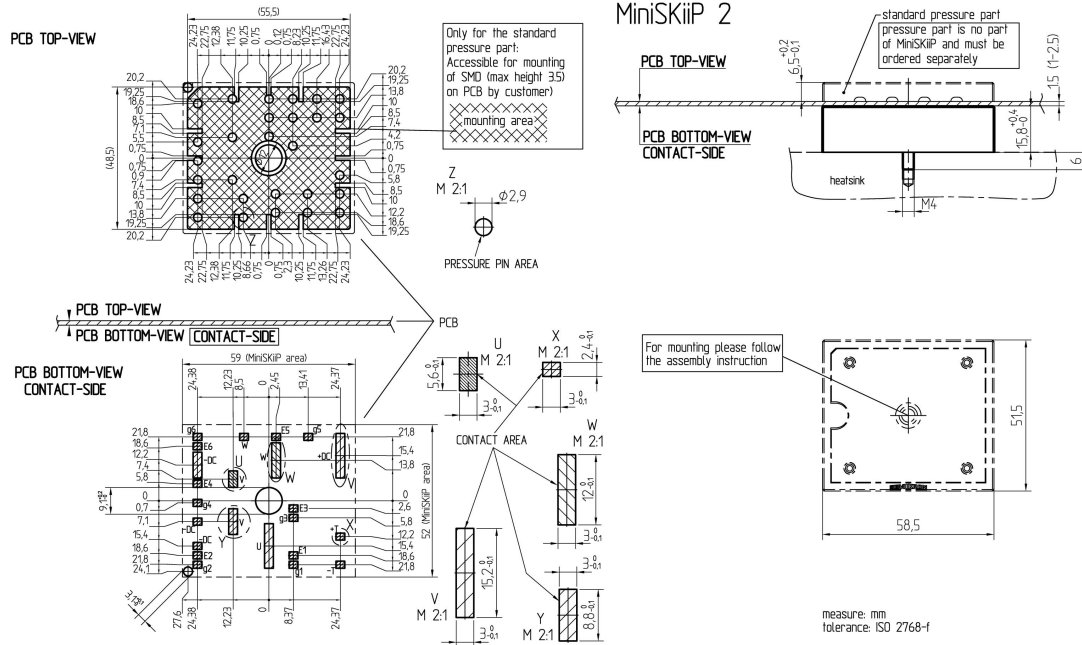
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UL recognized for

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no. E 63 532



case

