



OTHER SYMBOLS:

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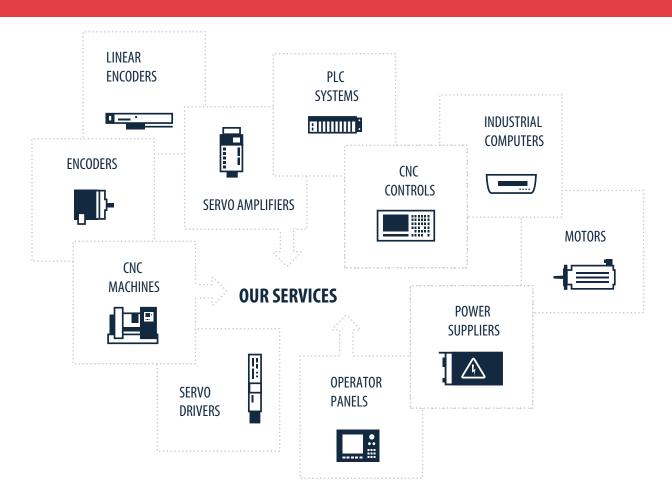


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At our premises in Wrocław, we have a fully equipped servicing facility. Here we perform all the repair works and test each later sold unit. Our trained employees, equipped with a wide variety of tools and having several testing stands at their disposal, are a guarantee of the highest quality service.



SPT IGBT Module

SKM 100GB128D

Features

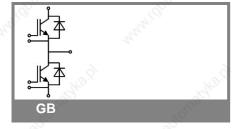
- SPT = Soft-Punch-Through technology
- V_{CEsat} with positive temperature coefficient
- High short circuit capability, self limiting to 6 x I_c

Typical Applications

- AC inverter drives
- UPS
- Electronic welders at f_{sw} up to 20 kHz

Absolute	Maximum Ratings	T _c =	= 25 °C, unless otherwise sp	ecified
Symbol	Conditions		Values	Units
IGBT 🔀	703	8	1000	7095
V_{CES}	T _j = 25 °C		1200	V
I _C	T _j = 150 °C	T _c = 25 °C	145	Α
		$T_c = 80 ^{\circ}C$	105	Α
I _{CRM}	I _{CRM} =2xI _{Cnom}	73.5,	150	Α
V _{GES}	Tage,	Tigh.	±20	V
t _{psc}	V_{CC} = 600 V; $V_{GE} \le 20$ V; VCES < 1200 V	T _j = 125 °C	10	μs
Inverse D	Diode		The Th	
I _F M	T _j = 150 °C	T_{case} = 25 °C	95	Α
		T _{case} = 80 °C	65	Α
I _{FRM}	$I_{FRM} = 2xI_{Fnom}$	12,5	150	Α
I _{FSM}	t _p = 10 ms; sin.	T _j = 150 °C	720	Α
Module	⁷ 7 ₁₀ ,	7 ₆₀ ,	T _C .	1/10.
I _{t(RMS)}	. B	>	200	Α
T _{vj}	The state of the s		- 40 + 150	°C
T _{stg}			- 40 + 125	°C
V _{isol}	AC, 1 min.	3	4000	V

Characteristics		T _c = 25 °C, unless otherwise specified					
Symbol	Conditions		min.	typ.	max.	Units	
IGBT O	77.07		77,07			30,	
$V_{GE(th)}$	$V_{GE} = V_{CE}$, $I_C = 3 \text{ mA}$		4,5	5,5	6,45	V	
I _{CES}	$V_{GE} = 0 V, V_{CE} = V_{CES}$	T _j = 25 °C		0,1	0,3	mA	
V _{CE0}	20	T _j = 25 °C		1 0	1,15	V	
	29/E.	T _j = 125 °C		0,9	1,05	V	
r _{CE}	V _{GE} = 15 V	T _i = 25°C	. (13	16	mΩ	
	3 E	T _j = 125°C	- 100 m	16	20	$m\Omega$	
V _{CE(sat)}	I _{Cnom} = 75 A, V _{GE} = 15 V	T _j = 25°C _{chiplev} .	770	1,9	2,35	<>`∨	
	"Heles.	$T_j = 125^{\circ}C_{chiplev}$	The state	2,1	2,55	V	
C _{ies}				6,2		nF	
C _{oes}	$V_{CE} = 25, V_{GE} = 0 V$	f = 1 MHz		0,74		nF	
C _{res}	Mo.x	160,0		0,71		nF	
Q_G	$V_{GE} = -8V - +20V$			860		nC	
R _{Gint}	T _j = 25 °C	NIC.	7/1/2	5		Ω	
t _{d(on)}	.07		. 30	175		ns	
t _r E _{on}	$R_{Gon} = 4.7 \Omega$	$V_{CC} = 600V$	My.	38		ns	
E _{on}	27	I _{Cnom} = 75A	19	9		mJ	
$t_{d(off)}$	$R_{Goff} = 4.7 \Omega$	T _j = 125 °C		370		ns	
t_f	9	$V_{GE} = \pm 15V$		65		ns	
E_{off}	The.	Afo.		7,5		mJ	
R _{th(j-c)}	per IGBT	·offic		260	0,21	K/W	





SPT IGBT Module

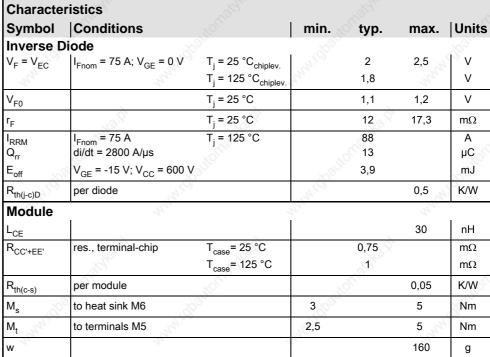
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This is an electrostatic discharge sensitive device (ESDS), international standard IEC 60747-1, Chapter IX.

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





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