Preliminary

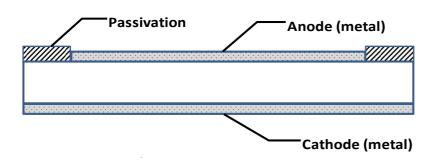
Туре	V _{RRM} [V]	<i>I _{F(AV)}</i> [A]	Chi [mm]	p Size x [mm]	Package		•—>
DSHP 63-18	1800	93	8,91	7,22	sawn on foil unsawn wafer in waffle pack	∀ ∀ *	
					*Please Contact IXYS Chip Sales		

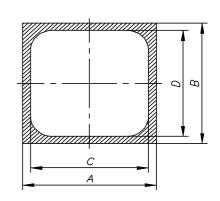
Mechanical Parameters

Area active				42,30 mm²	Features		
Area total				64,33 mm²	• fast, soft SONIC diode		
Wafer size Ø				150 mm	 low forward voltage drop 		
Thickness				 small temp. Coefficient 			
Die Per Wafer							
Material				 low switching losses 			
Passivation front side				Polyimide	 high ruggedness 		
Metalisation front side			bondable:	Al	anode top		
Metalisation back side			solderable (only):	Al/Ti/NiV/Ag	• Tvjm = 175°C		
Recom. wire bonds (AI)		Anode	Number	8			
*= stitch bonds			Ø	380 μm	Applications		
Reject ink dot size			Ø	0.4 - 1.0 mm	 antiparallel diode for high 		
Recom. solder temp.			<300 °C		frequency switching		
Recom. Storage environment					 antisaturation diode 		
sawn on foil unsawn wafer		in org. co	ontainer, in dry nitrogen	<6 month	• snubber diode		
		in org. co	ontainer, in dry nitrogen	<2 year	 freewheeling diode in 		
	in waffle pack	in org. co	ontainer, in dry nitrogen	<2 year	converters & motor control		
Storage temp.				-4040 °C	 rectifiers in switch mode 		
		·			power supplies (SMPS)		
					 inductive heating & melting 		
					 uninterruptible power 		
					supplies (UPS)		

Dimensions

Α	В	С	D		
[mm]	[mm]	[mm]	[mm]		
8,91	7,22	7,37	5,56		





• ultrasonic cleaners & welders

IXYS reserves the right to change limits, conditions and dimensions

and dimensions 深圳性形域 www.szjxt.com.cn

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Preliminary

Electrical Parameters

Symbol	Conditions				Ratings		
				min	typ	max	Units
I _R	V = V _{RRM}	Tvj =	25 °C			100	μΑ
		Tvj =	150 °C		2,2		mA
V_F	If = 100 A	Tvj =	25 °C		1,90	2,20	V
		Tvj =	150 °C		2,00		V
V_{F0}	For power loss calculations only					1,3	V
r_F		Tvj =	175 °C			9,5	mΩ
T _V J				-55		175	°C
I _{F(AV)} *	DC	Tc =	80 °C		93		А
I _{FSM} *	V = OV	Tvj =	45 °C			700	А
R thJC *	DC current					0,47	K/W
Q _{rr}							μC
I _{RM}	V = 900 V	Tvj =	25 °C				Α
t _{rr}	If = 100 A	dIf/dt =	2500 A/μs				ns
E rec							mJ
Q _{rr}					30		μС
I _{RM}	V = 900 V	Tvj =	150 °C		160		А
t _{rr}	If = 100 A	dIf/dt =	2500 A/μs		200		ns
E rec					11		mJ

^{*} Data according to assembled 380µm DCB

Data according to IEC 60747

Terms of Conditions & Usage

The data contained in this product datasheet is exclusively intended for technically trained staff. The user will have to evaluate the suitability of the product for the intended application and the completeness of the product data with respect to his application. The specifications of our components may not be considered as an assurance of component characteristics. Should you require product information in excess of the data given in this product datasheet or which concerns the specific application of our product, please contact the sales office, which is responsible for you. Due to technical requirements our product may contain dangerous substances. For any information on the types in question please contact the sales office/partner, which is responsible for you.

Should you intend to use the product in aviation applications, in life or health endangering or life support applications, please notify. For any such applications we urgently recommend

- to perform joint risks and quality assessments;
- the conclusion of quality agreements;
- to establish joint measures to ensure application specific product capabilities and notify that IXYS may deliver dependant on the realisation of any such measures.

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