Preliminary

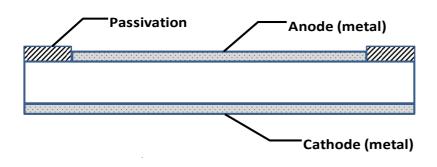
Туре	V _{RRM} [V]	<i>I _{F(AV)}</i> [A]	Chi [mm]	i p Size x [mm]	Package		──
DSHP 154-18	1800	229	12,4	12,4	sawn on foil unsawn wafer in waffle pack	∀ ∀*	
					*Please Contact IXYS Chip Sales		

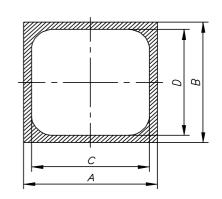
Mechanical Parameters

Area active				117,60 mm²	Features		
Area total				153,76 mm²	• fast, soft SONIC diode		
Wafer size Ø				150 mm	 low forward voltage drop 		
Thickness				290 μm	• 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):	AI/Ti/NiV/Ag	• Tvjm = 175°C		
Recom. wire bonds (Al)		Anode	Number	10			
*= 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 waffle pack		in org. co	ntainer, in dry nitrogen	<6 month	 snubber diode 		
		in org. co	ntainer, in dry nitrogen	<2 year	 freewheeling diode in 		
		in org. co	ntainer, 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]	
12,4	12,4	10,8	10,8	





• ultrasonic cleaners & welders

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dimensions 深圳桂刊通 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			500	μΑ
		Tvj =	150 °C		5		mA
V_F	If = 250 A	Tvj =	25 °C		1,90	2,20	V
		Tvj =	150 °C		1,90		V
V_{F0}	For power loss calculations of	only				1,3	V
r _F		Tvj =	175 °C			3,4	mΩ
T _V J				-55		175	°C
I F(AV) *	DC	Tc =	80 °C		229		А
I _{FSM} *	V = OV	Tvj =	45 °C			1800	А
R thJC *	DC current					0,2	K/W
Q _{rr}							μС
I _{RM}	V = 900 V	Tvj =	25 °C				А
t _{rr}	If = 250 A	dIf/dt =	3600 A/μs				ns
E rec							mJ
Q _{rr}					74		μС
I _{RM}	V = 900 V	Tvj =	150 °C		380		А
t _{rr}	If = 250 A	dIf/dt =	3600 A/μs		200		ns
E rec					30		mJ

^{*} Data according to assembled 380µm DCB

Data according to IEC 60747

Terms of Conditions & Usage

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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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