

Туре	Ag [*] Al [*]	V _{DRM} / V _{RRM}	I _{F(AV)} [A]	Chip Size [mm] x [mm]	Package Options	
DWN 10	08 V V	2200	253	12.30 12.3	sawn on foil unsawn wafer in waffle pack	
	*Frontside options				*Please contact IXYS chip sales	

Mechanical Parameters

Area active 123.00 mm² Area total 151.29 mm^2 Wafer size Ø 150 mm **Thickness** 315 μm Material Si Max. possible chips per wafer 88 Glassivation Passivation front side solderable: Al / Ti / Ni / Ag Metallization top side top side bondable: Metallization backside solderable (only): Al / Ti / Ni / Ag Recom. wire bonds (AI) Number 11 500 μm Reject Ink Dot Size Ø 0.4-1.0 mm Recom. Storage Environment in org. container, in dry nitrogen sawn on foil month unsawn wafer in org. container, in dry nitrogen year in waffle pack in org. container, in dry nitrogen < 2 year -40 ... Т °C 40

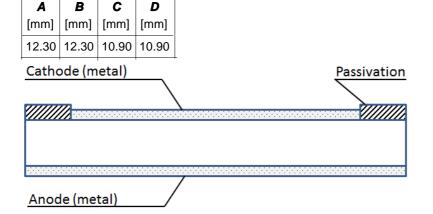
Features

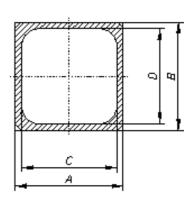
- with separation diffusion
- cathode top

Applications

- DC Power Supplies
- Field Supply for DC motors
- Battery DC Power Supplies
- Power Rectifiers

Dimensions





^{*}Sinterable top/bottom side on request



Elect	rical	parameters	;					
Symbol		Conditions	Ratings					
					min.	typ.	max.	
V_D / V	, R	$T_{VJ} = 25^{\circ}C$			2200			V
I_R		$V_R = V_{RRM}$	$T_{VJ} = 25^{\circ}C$				100	μΑ
		$V_R = 0.8 \cdot V_{RRM}$	$T_{VJ} = 150^{\circ}C$				3.5	mΑ
V _F		I _F = 300 A	$T_{VJ} = 25^{\circ}C$			15,10	1.18	V
			$T_{VJ} = 150^{\circ}C$				1.18	V
V _{F0}		For power-los	s calculations	only			0.83	V
r _F		$T_{VJ} = 150$ °C				13	0.8	$m\Omega$
T _{VJ}					-40		150	°C
I _{F(AV)}	*	T _c = 100 °C	180° rect.	T _{VJ} = 150°C		253		Α
I _{FSM}	*	$T_{VJ} = 45^{\circ}C$	t = 10 ms (5	0) Hz, sine			3200	Α
		$V_R = 0 V$	t = 8.3 ms (6)	0) Hz, sine			3500	Α
		T _{VJ} = 150°C	t = 10 ms (5	0) Hz, sine			2800	Α
		$V_R = 0 V$	t = 8.3 ms (6)	0) Hz, sine			3000	Α
f²t :	*	$T_{VJ} = 45^{\circ}C$	t = 10 ms (5	0) Hz, sine	(1.7)		51200	A s ²
		$V_R = 0 V$	t = 8.3 ms (6)	0) Hz, sine			51040	As
		T _{VJ} = 150°C	t = 10 ms (5	0) Hz, sine	-11		39200	A s ²
		$V_R = 0 V$	t = 8.3 ms (6)	0) Hz, sine			37500	$A s^2$
R _{thJC}	*	DC current					0.16	K/W

^{*} Data according to assembled Chip

Data according to IEC 60747

Terms of Conditions and Usage

The data contained in this product data sheet 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 data sheet 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 health or life endangering or life support applications, please notify. For any such applications we urgently recommend

- to perform joint risk and quality assessments;
- the conclusion of quality agreements;
- to establish joint measures to ensure application specific product capabilities and notify that IXYS may delivery dependent on the realization of any such measures.