

Туре	Ag [*] Al [†]	V _{DRM} / V _{RRM}	I _{F(AV)} [A]	Chip Size [mm] x [mm]	Package Options	
DWN	2 🗸	1600	12	2.95 2.95	sawn on foil unsawn wafer in waffle pack	✓ ✓ * ✓
	*Frontside options				*Please contact IXYS chip sales	

Mechanical Parameters

Area active			3.75	mm ²
Area total			8.70	mm ²
Wafer size Ø			mm	
Thickness			μm	
Material			Si	\times \wedge
Max. possible chips per wafer			1626	. 7
Passivation front side		Glass	sivation	
Metallization top side	solderable:	Al / Ti /	Ni / Ag	*
top side	bondable:		Al	
Metallization backside	solderable (only):	Al / Ti /	Ni / Ag	*
Recom. wire bonds (AI)	N	Number	2	
		Ø	380	μm
Reject Ink Dot Size		Ø	0.4-1.0	mm
Recom. Storage Environment				
sawn on foil	in org. container, in dry	nitroger	n < 6	month
unsawn wafer	in org. container, in dry	nitroger	1 < 2	year
in waffle pack	in org. container, in dry	nitroger	n < 2	year
	Т	-40	. 40	°C

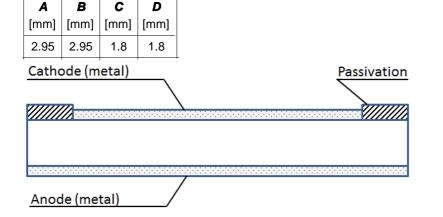
Features

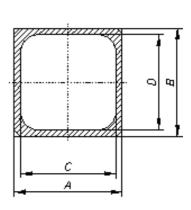
- with separation diffusion
- cathode top

Applications

- DC Power Supplies
- Field Supply for DC motorsBattery DC Power Supplies
- Power Rectifiers

Dimensions





^{*}Sinterable top/bottom side on request



Elect	trical	parameters						
Symb	ol	Conditions			Ratings			
					min.	typ.	max.	
V_D / V	/ _R	$T_{VJ} = 25^{\circ}C$			1600	1		V
I_R		$V_R = V_{RRM}$	$T_{VJ} = 25^{\circ}C$				5	μA
		$V_R = 0.8 \cdot V_{RRM}$	$T_{VJ} = 150^{\circ}C$			1	0.7	mΑ
V _F		I _F = 7 A	$T_{VJ} = 25^{\circ}C$			5.4	1.11	V
			$T_{VJ} = 150^{\circ}C$				1.01	V
V _{F0}		For power-loss	s calculations or	nly			0.81	V
r _F		$T_{VJ} = 150$ °C				3	28.5	$m\Omega$
T _{VJ}					-40		150	°C
I _{F(AV)}	*	$T_c = 100 ^{\circ}C$	180° rect.	$T_{VJ} = 150$ °C		12		Α
I _{FSM}	*	$T_{VJ} = 45^{\circ}C$	t = 10 ms (50)) Hz, sine			150	Α
		$V_R = 0 V$	t = 8.3 ms (60)) Hz, sine			160	Α
		$T_{VJ} = 150$ °C	t = 10 ms (50)) Hz, sine			130	Α
		$V_R = 0 V$	t = 8.3 ms (60)) Hz, sine			140	Α
ľ² t	*	$T_{VJ} = 45^{\circ}C$	t = 10 ms (50)) Hz, sine	45		110	$A s^2$
		$V_R = 0 V$	t = 8.3 ms (60)) Hz, sine			110	A s
		T _{VJ} = 150°C	t = 10 ms (50)) Hz, sine	-\\\		80	A s ²
		$V_R = 0 V$	t = 8.3 ms (60)) Hz, sine			80	A s ²
R _{thJC}	*	DC current					2.90	K/W

^{*} Data according to assembled Chip

(solderable)

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.