

draft

Туре	Ag [*] Aİ [*]	V _{DRM} / V _{RRM}	I _{F(AV)} [A]	Chip Size [mm] x [mm]	Package Options		• (N
DWN 4	18 🗸	2200	78	7.10 7.10	sawn on foil unsawn wafer in waffle pack	✓ *	
	*Frontside options				*Please contact IXYS chip sales		- ()

Mechanical Parameters

34.46 mm² Area active Area total 50.41 mm^2 Wafer size Ø 150 mm **Thickness** 265 μm Material Si 286 Max. possible chips per wafer 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 300 μm Reject Ink Dot Size Ø 0.4-1.0 mm Recom. Storage Environment in org. container, in dry nitrogen sawn on foil < 6 month in org. container, in dry nitrogen unsawn wafer year in waffle pack in org. container, in dry nitrogen < 2 year Τ -40 ... °C 40

Features

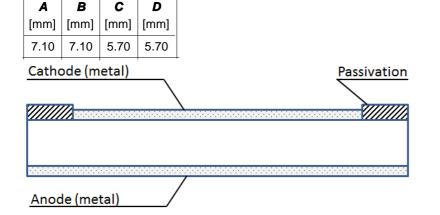
- with separation diffusion
- cathode top

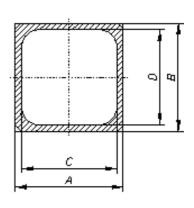
Applications

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

*Sinterable top/bottom side on request

Dimensions







draft

Electric	cal parameters	•					
Symbol	Conditions	Ratings					
				min.	typ.	max.	
V_D / V_R	$T_{VJ} = 25^{\circ}C$			2200			V
I _R	$V_R = V_{RRM}$	$T_{VJ} = 25^{\circ}C$				50	μA
	$V_R = 0.8 \cdot V_{RRM}$	$T_{VJ} = 150^{\circ}C$			1	2	mΑ
V _F		$T_{VJ} = 25^{\circ}C$			4	1.31	V
		$T_{VJ} = 125^{\circ}C$		-		1.29	V
V _{F0}	For power-los	s calculations on	nly			0.87	V
r _F	$T_{VJ} = 150$ °C				W.	2.7	$\text{m}\Omega$
T _{VJ}				-40		150	°C
I _{F(AV)} *	T _C = 100 °C	180° rect.	T _{VJ} = 150°C		78		Α
I _{FSM} *	$T_{VJ} = 45^{\circ}C$	t = 10 ms (50)	Hz, sine			1100	Α
	$V_R = 0 V$	t = 8.3 ms (60)	Hz, sine			1200	Α
	T _{VJ} = 150°C	t = 10 ms (50)	Hz, sine			1000	Α
	$V_R = 0 V$	t = 8.3 ms (60)	Hz, sine	A 4/1/1/1		1000	Α
<i>l</i> ² <i>t</i> *	$T_{VJ} = 45^{\circ}C$	t = 10 ms (50)	Hz, sine			6050	A s ²
	$V_R = 0 V$	t = 8.3 ms (60)	Hz, sine			6000	A s
	T _{VJ} = 150°C	t = 10 ms (50)	Hz, sine	-//-		5000	A s ²
	$V_R = 0 V$	t = 8.3 ms (60)	Hz, sine			4170	A s ²
R _{thJC} *	DC current					0.50	K/W

^{*} Data according to assembled Chip

(solderable chip)

Data according to IEC 60747

Terms of Conditions and Usage

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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.