

Туре	V _{RRM}	I _{F(AV)} [A]	Chip Size			• 	—
DWPJ 18-16 AL	1600	28	4.20 4.	sawn on foil in waffle pack	V		

Mechanical Parameters

10.72 mm² Area active mm² Area total 17.64 Wafer size Ø 150 mm **Thickness** 265 μm Material Si 781 Max. possible chips per wafer Passivation front side Glassivation bondable: Metallization top side Metallization backside solderable (only): Al / Ti / Ni / Ag Recom. wire bonds (AI) Number 380 μm Reject Ink Dot Size Ø 0.4-1.0 mm Recom. Storage Environment

sawn on foil in org. container, in dry nitrogen < 6 months in org. container, in dry nitrogen unsawn wafer < 2 years in waffle pack in org. container, in dry nitrogen < 2 years Recom. storage temperature -40 ... 40 °C

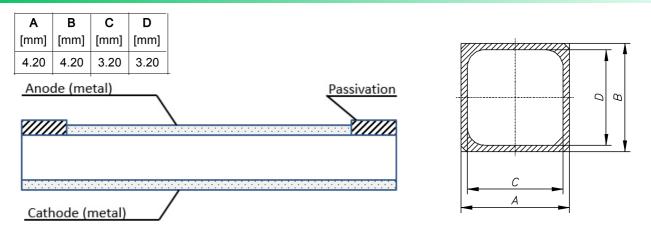
Features

- advanced planar technology
- anode top
- glassivation
- soft recovery rectifier diode
- high commutation robustness

Applications

- DC power supplies
- field supply for DC motors
- battery DC power supplies
- power rectifiers
- input rectifier

Dimensions



IXYS reserves the right to change limits, conditions and dimensions





Electrica	al parameters								
Symbol	Conditions						Ratings		
						min.	typ.	max.	
V_{RRM}	$T_{VJ} = 25^{\circ}C$					1600			V
I _R	$V_R = V_{RRM}$	$T_{VJ} = 25^{\circ}C$						150	μΑ
	$V_R = 0.8 \cdot V_{RRM}$							0.5	mΑ
V _F	I _F = 28 A	$T_{VJ} = 25^{\circ}C$					1.07		V
		$T_{VJ} = 150^{\circ}C$					1.00		V
V _{F0, max}	Maximum forw	vard voltage rai	nge					1.00	V
r _{F, max}	$T_{VJ} = 25 ^{\circ}C$	$0.5 \cdot I_{F(AV)} < I_F$	< 2·I _{F(AV)}					5	mΩ
di/dt	$T_{VJ} = 25^{\circ}C$	$V_{DC} = 600V$	$I_F = 2 \cdot I_{F(AV)}$	$L_{S, max} = 1.3 \mu H$	$V_{R, max} = 850 \text{ V}$			200	A/µs
	$T_{VJ} = 150^{\circ}C$	$V_{DC} = 600V$	$I_F = 2 \cdot I_{F(AV)}$	$L_{S, max}$ = 1.3 μH	$V_{R, max} = 850 \text{ V}$			200	A/µs
T _{VJ}						-40		150	°C
I _{F(AV)} *	$T_{\rm C}$ = 100 °C	180° rect.	T _{vJ} = 150°C				28		Α
I _{FSM} *	$T_{VJ} = 25^{\circ}C$	t = 10 ms (50)) Hz, sine					380	Α
	$V_R = 0 V$	t = 8.3 ms (60)) Hz, sine					350	Α
	$T_{VJ} = 150$ °C	t = 10 ms (50)) Hz, sine					300	Α
	$V_R = 0 V$	t = 8.3 ms (60)) Hz, sine					290	Α
l²t *	$T_{VJ} = 25^{\circ}C$	t = 10 ms (50)) Hz, sine					720	A ² s
	$V_R = 0 V$	t = 8.3 ms (60))) Hz, sine					510	A^2s
	T _{vJ} = 150°C	t = 10 ms (50)) Hz, sine					450	A^2s
	$V_R = 0 V$	t = 8.3 ms (60)) Hz, sine					350	A 2s
R _{thJC} *	DC current							1.10	K/W
* Data accord	ling to assembled Chip) VHFD	(bondable)				Data a	ccording to IE	C 60747
V_{br}	$T_{VJ} = 25^{\circ}C$					1740			V
-	$T_{VJ} = 150^{\circ}C$					1800			V
I _{RSM}	Avalanche cap	pability						5	mA

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 system characteristics when assembled. 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 your responsible sales office.

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.

深圳佳讯通 www.szjxt.com.cn 20180228