

HiPer FRED

Туре	Ag [*] Aİ [*]	V_{RRM} [∨]	<i>l_F</i> [A]	Chip Size [mm] x [mm]	Package Options	• •
DWLP 75	V V	1200	78	8.914 7.22	sawn on foil ✓ unsawn wafer ✓* in waffle pack ✓	
	*Frontside options				*Please contact IXYS chip sales	

Mechanical Parameters

49.03 mm² Area active Area total 64.36 Wafer size Ø 150 **Thickness** 425 Material Si 220 Max. possible chips per wafer Passivation front side Glass Metallization top side bondable or solderable solderable (only): Al / Ti / Ni / Ag Metallization backside Recom. wire bonds (AI) Anode Number 18* * Stitch bonds 380 µm Ø Reject Ink Dot Size Ø 0.4-1.0 mm Recom. Storage Environment in org. container, in dry nitrogen sawn on foil < 6 month unsawn wafer in org. container, in dry nitrogen <2 year in waffle pack in org. container, in dry nitrogen < 2 year -40 ... 40 °C T_{stq}

Features:

mm²

mm

μm

- Anode top
- Pt doped
- Epitaxial diode
- Planar surface
- Glass passivated

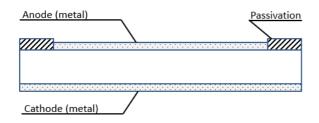
Applications:

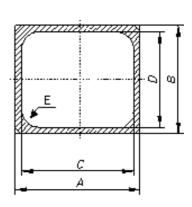
- Antiparallel diode for high frequency switching devices
- Antisaturation diode
- Snubber diode
- Free wheeling diode in converters and motor control circuits
- Rectifiers in switch mode power supplies (SMPS)
- Inductive heating
- Uninterruptible power supplies (UPS)
- Ultrasonic cleaners and welders
- PDP

*Sinterable top/bottom side on request

Dimensions

Α	В	С	D	E
[mm]	[mm]	[mm]	[mm]	[mm]
8.914	7.22	7.95	6.22	0.20







Electrical parameters

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Symbol	Conditions	Ratings	Ratings		
		min. typ. m	ıax.		
I _R	$V = V_{RRM}$ $T_{VJ} = 25^{\circ}C$	2	20 μΑ		
	$T_{VJ} = 150^{\circ}C$		4 mA		
V _F	I _F = 100 A T _{VJ} = 25°C	2	2.56 V		
	$T_{VJ} = 150 ^{\circ}\text{C}$	- ()	.72 V		
V _{F0}	For power-loss calculations only	1	.33 V		
r _F	T _{vJ} = 175 °C	3	$m\Omega$		
T _{VJ}		-55	175 °C		
I _{F(AV)} *	T _c = 125°C; 180° rect.	1////	78 A		
I _{FSM} *	$T_{VJ} = 45^{\circ}C;$ t = 10 ms (50 Hz), sine		800 A		
R _{thJC} *	DC current		0.4 K/W		

 $I_F = 1 \text{ A}; -di_F/dt = 400 \text{ A/}\mu\text{s;}T_{VJ} = 25^{\circ}\text{C}$

 $I_F = 200 \text{ A}$; $-di_F/dt = 100 \text{ A/}\mu\text{s}$; $T_{VJ} = 25^{\circ}\text{C}$

Data according to IEC 60747

7.40

ns

Α

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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.

 I_{RM} $V_{R} = 100$ $I_{F} = 200 A$ * Data according to assembled Chip