FRED tentative

Туре	Ag [*] Al [*]	V_{RRM} [∀]	<i>l_F</i> [A]	Chip Size [mm] x [mm]	Package	<u> </u>
DWEP 35	V V	600	50	6.20 6.20	sawn on foil ✓ unsawn wafer ✓ in waffle pack ✓	130
	*Frontside options		I	I	*Please contact IXYS chip sales	

Mechanical Parameters

Area active	27.01	mm ²			
Area total	38.44	mm ²			
Wafer size Ø	150	mm			
Thickness	365	μm			
Material	Si	X			
Max. possible chips per wafer	386				
Passivation front side	glass				
Metallization top side	bondable or solderable				
Metallization backside	solderable (only)Al / Ti / Ni / Ag				
Recom. wire bonds (AI)	Anode Number 12*				
* Stitch bonds	Ø 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	month			
unsawn wafer	in org. container, in dry nitrogen < 2	year			
in waffle pack	in org. container, in dry nitrogen < 2	year			
	T _{stg} -40 40	°C			

Features

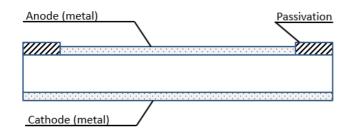
- Anode top
- Glassivated
- Au doped
- Planar surface
- Epitaxial diode

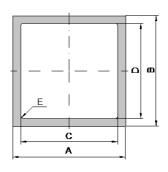
Applications

- 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

Dimensions

A	В	С	D	E
[mm]	[mm]	[mm]	[mm]	[mm]
6.20	6.20	5.20	5.20	0.20





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Electrical parameters

Symb	ol	Conditions	1	Ratings		
			min.	typ.	max.	
I _R		$V = V_{RRM}$ $T_{VJ} = 25^{\circ}C$			50	μΑ
		$V = 0.8 \cdot _{RRM} T_{VJ} = 125 ^{\circ} C$			14	mA
V _F		$I_F = 70$ A $T_{VJ} = 25$ °C			1.74	V
		$T_{VJ} = 150 ^{\circ}\text{C}$		- (X)	1.48	V
V _{F0}	*	For power-loss calculations only			tbd	V
r _F	*	$T_{VJ} = 150 ^{\circ}\text{C}$			tbd	$m\Omega$
T _{VJ}			-55	7	150	°C
I _{F(AV)}	*	T _C = 100 °C 180° rect. T _{VJ} = 150 °C	X		50	Α
I _{FSM}	*	$T_{VJ} = 45^{\circ}C$ $t = 10$ ms (50 Hz), sine $V_{R} = 0$ V			tbd	Α
R _{thJC}	*	DC current			tbd	K/W
t _n	*	$V_R = 100 \text{ V}; I_F = 100 \text{ A}: -di_F/dt = 100 \text{ A/}\mu\text{s} T_{VJ} = 25^{\circ}\text{C}$		90		ns
I _{RM}		$V_R = 100 \text{ V}; I_F = 100 \text{ A}; -di_F/dt = 100 \text{ A/}\mu\text{s} T_{VJ} = 25^{\circ}\text{C}$			5	Α

^{*} Data according to assembled Chip

Data according to IEC 60747

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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.