

Diode Chip

DWPJ62-16

tentative

Circuit Diagram



Product Summary

Characteristics	Value	Unit
V_{RRM}	1600	V
I F _(AV)	100	Α
Chip Dimensions	8,5x7,3	mm
unsawn wafer	Yes	
sawn on foil	Yes	
in waffle pack	Yes	

Applications

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

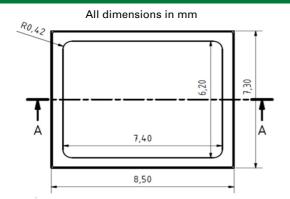
Features

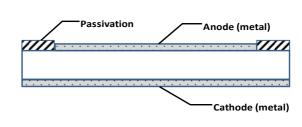
- glassivation
- Tvjm =
- 150°C
- · advanced planar technology
- soft recovery rectifier diode
- high commutation robustness
- anode top

Mechanical Characteristic

Characteristic		Conditions	Value	Unit
Area active			47,18	mm²
Area total			62,05	mm²
Thickness			265	μm
Wafer size Ø			150	mm
Die Per Wafer			210	
Material			Si	
Passivation front side			Glass	
Metalisation front side		bondable:	Al	
Metalisation back side		solderable (only):	Al/Ti/NiV/Ag	
Recom. wire bonds (AI)	Anode	Number	6	
*= stitch bonds		Ø	380	μm
Reject ink dot size		Ø	0.4 - 1.0	mm
Recom. solder temp.			<300	°C
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
Storage temp.			-4040	°C

Dimensions





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Rectifier tentative

Electrical Parameters

Compleal		Conditions		Value			11.36
Symbol		Conditions			Тур	Max	Unit
Static Characteris	tics						
V_R	V = V _{RRM}	Т	vj = 25°C			1600	V
I _R	$V = V_{RRM}$					50	μA
		Т	vj = 150°C			0,5	mA
V_F	If = 140A	Т	vj = 25°C		1,10	1,20	V
	Tvj = 150°C			1,04		V	
V_{F0}	For power loss	calculations only	,			0,90	V
r _F		Т	vj = 150°C			1,8	mΩ
T _{VJ}				-40		150	°C
<i>I_{F(AV)}</i> *	DC	Т	c = 100°C		100		Α
R thJC *	DC current					0,4	K/W
I _{FSM}	Tvj = 45 °C	t = 10 ms	(50) Hz , sine			1400	Α
	$V_R = 0 V$	t = 8.3 ms	(60) Hz , sine			1400	Α
	Tvj = 150 °C	t = 10 ms	(50) Hz , sine			1200	Α
	$V_R = 0 V$	t = 8.3 ms	(60) Hz , sine			1200	Α
	Tvj = 45 °C	t = 10 ms	(50) Hz , sine			9800	A ² s
	$V_R = 0 V$	t = 8.3 ms	(60) Hz , sine			8100	A ² s
	Tvj = 150 °C	t = 10 ms	(50) Hz , sine			7200	A ² s
	$V_R = 0 V$	t = 8.3 ms	(60) Hz , sine			5900	A ² s

^{*} Data according to assembled 380µm DCB

Data according to IEC 60747

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- the conclusion of quality agreements;
- to establish joint measures to ensure application specific product capabilities and notify that IXYS may deliver dependant on the realisation of any such measures.

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