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Туре	Ag [*] Aİ [*]	V _{DRM} / V _{RRM}	V _{DSM} /V _{RSM} [∨]	I_{Т(AV)} [A]	Chip Size [mm] x [mm]	Package Options	•
CWP 25-	16 🗹 🗹	1600	1700	40	7.10 7.10	sawn on foil vinsawn wafer vinwaffle pack vinwaffle	
	*Frontside options					*Please contact IXYS chip sales	

Mechanical Parameters

Area active				0.24	cm ²	
Area total				0.50	cm ²	
Wafer size Ø				150	mm	
Thickness				380	μm	
Material				Si		
Max. possible	chips per wafer			285	X	
Passivation fr	ont side	Glassivation				
Metallization	top side	solderable: Ti / Ni / Ag *				
	top side		bondable:	Al		
Recom. wire	bonds (AI)	Cathode Gate				
* = Stitchbonds	Number / Ø [µm]	12* / 300	1	/ 300		
Metallization	backside	solderable (only): Ti / Ni / Ag *				
Reject Ink Do	t Size		Ø	1	mm	
Recom. Stora	ge Environment					
	sawn on foil	in org. containe	r, in dry nitrogen	< 6	month	
	unsawn wafer	in org. containe	r, in dry nitrogen	< 2	year	
	in waffle pack	in org. containe	r, in dry nitrogen	< 2	year	
		T _{stg}	-40	40	°C	

Features

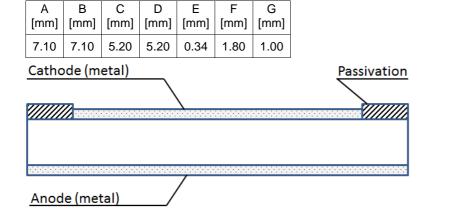
- planar design (non-mesa)
- ultra rugged for easy assembly (flat backside)
- excellent long term stability
- very low leakage current
- very low forward voltage drop

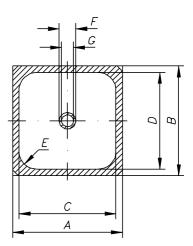
Applications

- DC motor control
- AC power control
- Softstrart AC motor controller
- Light, heat and temperature control
- Solid state relays
- Controlled rectifier circuits

*Sinterable top/bottom side on request

Dimensions





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			Ratings		
Symbol	Conditions	min.	typ.	max.	
l _R	$V_D = Vr = Vrr$	$T_{VJ} = 25^{\circ}C$ $T_{VJ} = 150^{\circ}C$		0.05 20	
V ₇	I _T = 60 A		A	1.33 1.35	
V _{To}		s calculations only	- (0.89	
▼ ₇₀ r ₇	$T_{V,i} = 150 ^{\circ}\text{C}$	s calculations only		7.00	
V _{G7}	-	T _{v.1} = 25°C	10	2.5	
▼GT	V _D — О V	$T_{VJ} = -40$ °C		3.5	
I _{et}	V _D = 6 V	T _{V.1} = 25°C		50	
·Gi	=	$T_{VJ} = -40$ °C		80	
V _{GD}	T _{v,i} = 150 °C	· ·		0.2	
I _{GD}	V V	DAW		1	n
<u>.</u> Ι _ι	t _p =10 μs	$T_{VJ} = 25^{\circ}C$ $I_{G} = 0.45 \text{ A}$ $di_{G}/dt = 0.45 \text{ A}/\mu\text{s}$		450	n
- _H		$T_{VJ} = 25^{\circ}C$ $V_{D} = 6 \text{ V}$		100	n
t_{gd}	$V_D = \frac{1}{2} V_{DRM}$			2	
		$di_{g}/dt = 0.5 A/\mu$			
t _q	V _R = 100 V	$I_{T} = 40 \text{ A}$ $-di/dt = 10 \text{ A}/\mu\text{s}$		200	
		$dv/dt = 20 V/\mu s V_D = \frac{2}{3} V drm T_{V,J} = 125 °C$			
(di/dt) _c ,	repetitive	$I_T = 75$ A		150	
	non repetitive $V = \frac{2}{3} V_{DRM}$	$I_T = 40$ A $T_{VJ} = 150$ °C $di_G/dt = 0.45$ A/ μ s		500	A/
	$I_G = 0.45 \text{ A}$				
(dv/dt) _{cr}		$V_{DR} = \frac{2}{3} V_{DRM}$		1000	\//
(ava _{ga}	R _{GK} = ∞	method 1 (linear voltage rise)		1000	•,
P _{GM}	T _{v.i} = 150 °C			10	
- GM	· vj	$t_p = 3E \mu s$		5	
P _{GAV}				0.5	
V _{RGM}				10	
T _{VJ}		-40		150	(
I _{T(AV)}	$T_{\rm C} = 85 ^{\circ}{\rm C}$	180° rect.		40	
	T _{VJ} = °C	180° sine		37	
I _{TSM} *	T _{VJ} = 45°C	t = 10 ms (50) Hz, sine		520	
	$V_R = 0 V$	t = 8.3 ms (60) Hz, sine		560	
	T _{vJ} = 150 °C	t = 10 ms (50) Hz, sine		460	
	$V_R = 0 V$	t = 8.3 ms (60) Hz, sine		500	
l²t *	$T_{VJ} = 45^{\circ}C$	t = 10 ms (50) Hz, sine		1352	Α
	$V_R = 0 V$	t = 8.3 ms (60) Hz, sine		1301	Α
	T _{VJ} = 150 °C	t = 10 ms (50) Hz, sine		1058	Α
	$V_R = 0 V$	t = 8.3 ms (60) Hz, sine		1038	Α
R _{thJC} *	DC current		0.88		K/

Data according to IEC 60747

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- to establish joint measures to ensure application specific product capabilities and notify that IXYS may delivery dependent on the realization of any such measures.