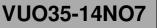


Standard Rectifier Module



3~ Rectifier Bridge

Part number VUO35-14NO7



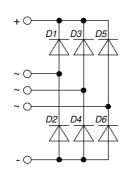
Phase out

3~					
Rectifier					
V_{RRM}	=	1400 V			
I _{dav}	=	35 A			
	=	400 A			



N E72873

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Features / Advantages:

- Package with DCB ceramic
- Improved temperature and power cycling
- Planar passivated chips
- Very low forward voltage drop
- Very low leakage current

Applications:

- Diode for main rectification
- For three phase bridge configurations
- Supplies for DC power equipment
- Input rectifiers for PWM inverter
- Battery DC power supplies
- Field supply for DC motors

Package: PWS-A

- Isolation Voltage: 3000 V~
- Industry standard outline
- RoHS compliant
- Easy to mount with two screws
- Base plate: Aluminium
- internally DCB isolatedAdvanced power cycling

Recommended replacement: VUO35-16NO7

Terms and Conditions of 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 component characteristics. The information in the valid application- and assembly notes must be considered. Should you require product information in excess of the data given in this product data sheet or which concerns the specific application of your product, please contact your local sales office.

Due to technical requirements our product may contain dangerous substances. For information on the types in question please contact your local sales office. Should you intend to use the product in aviation, in health or life endangering or life support applications, please notify. For any such application we urgently recommend

to perform joint risk and quality assessments;
the conclusion of quality agreements;

- to establish joint measures of an ongoing product survey, and that we may make delivery dependent on the realization of any such measures

IXYS reserves the right to change limits, conditions and dimensions.

Data according to IEC 60747and per semiconductor unless otherwise specified

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Rectifier					Ratings				
Symbol	Definition	Conditions		min.	typ.	max.	Unit		
V _{RSM}	max. non-repetitive reverse bloc	king voltage	$T_{VJ} = 25^{\circ}C$			1500	V		
V _{RRM}	max. repetitive reverse blocking	voltage	$T_{VJ} = 25^{\circ}C$			1400	V		
I _R	reverse current	$V_{R} = 1400 V$	$T_{VJ} = 25^{\circ}C$			40	μA		
		$V_{R} = 1400 V$	$T_{vJ} = 150^{\circ}C$			1.5	mA		
V _F	forward voltage drop	I _F = 15 A	$T_{VJ} = 25^{\circ}C$			1.10	V		
		I _F = 45 A				1.38	V		
		I _F = 15 A	$T_{VJ} = 125 ^{\circ}C$			1.01	V		
		$I_{F} = 45 \text{ A}$				1.38	V		
DAV	bridge output current	T _c = 85°C	$T_{vJ} = 150 ^{\circ}\text{C}$			35	A		
		rectangular d = ⅓							
V _{F0}	threshold voltage		$T_{VJ} = 150 ^{\circ}C$			0.80	V		
r _F	slope resistance } for power	loss calculation only				12.9	mΩ		
R _{thJC}	thermal resistance junction to ca	ase				4.2	K/W		
R _{thCH}	thermal resistance case to heats	sink			0.6		K/W		
P _{tot}	total power dissipation		$T_c = 25^{\circ}C$			29	W		
	max. forward surge current	t = 10 ms; (50 Hz), sine	$T_{VJ} = 45^{\circ}C$			400	Α		
		t = 8,3 ms; (60 Hz), sine	$V_{R} = 0 V$			430	Α		
		t = 10 ms; (50 Hz), sine	T _{vj} = 150°C			340	Α		
		t = 8,3 ms; (60 Hz), sine	$V_{R} = 0 V$			365	Α		
l²t	value for fusing	t = 10 ms; (50 Hz), sine	$T_{VJ} = 45^{\circ}C$			800	A ² s		
		t = 8,3 ms; (60 Hz), sine	$V_{R} = 0 V$			770	A ² s		
		t = 10 ms; (50 Hz), sine	T _{vJ} = 150°C			580	A ² s		
		t = 8,3 ms; (60 Hz), sine	$V_{R} = 0 V$			555	A²s		
C	junction capacitance	$V_{R} = 400 \text{ V}; \text{ f} = 1 \text{ MHz}$	$T_{VJ} = 25^{\circ}C$		10		pF		

PHASE OUT

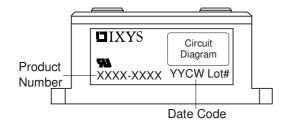
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Phase out

Package PWS-A					Ratings			
Symbol	Definition	Conditions		min.	typ.	max.	Unit	
I _{RMS}	RMS current	per terminal				100	А	
\mathbf{T}_{v_J}	virtual junction temperature			-40		150	°C	
T _{op}	operation temperature					125	°C	
T _{stg}	storage temperature			-40		125	°C	
Weight					100		g	
M _D	mounting torque			1.25		1.75	Nm	
M _T	terminal torque			1.25		1.75	Nm	
d _{Spp/App}	creepage distance on surface striking distance	topoo through oir	terminal to terminal	6.5			mm	
d _{Spb/Apb}		stance through an	terminal to backside	8.5			mm	
	isolation voltage	t = 1 second	50/60 Hz, RMS; I _{ISOL} ≤ 1 mA	3000			V	
	t = 1 minute	t = 1 minute		2500			V	



Γ	Ordering	Ordering Number	Marking on Product	Delivery Mode	Quantity	Code No.
	Standard	VUO35-14NO7	VUO35-14NO7	Box	20	456640

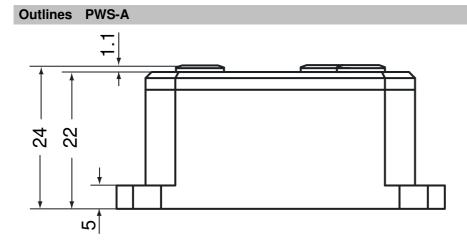
Equiva	alent Circuits for	Simulation	* on die level	T _{vJ} = 150 °C
	- Ro-	Rectifier		
V _{0 max}	threshold voltage	0.8		V
$\mathbf{R}_{0 \max}$	slope resistance *	11.7		mΩ

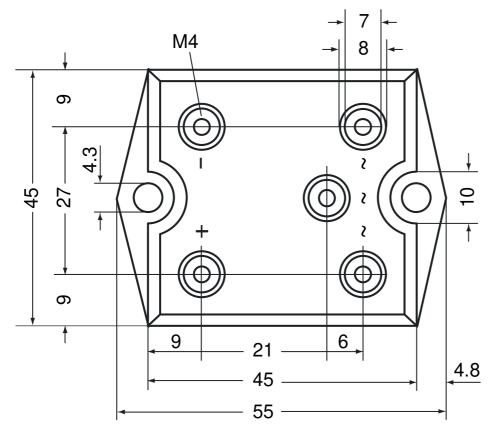
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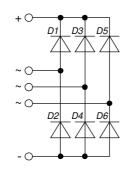
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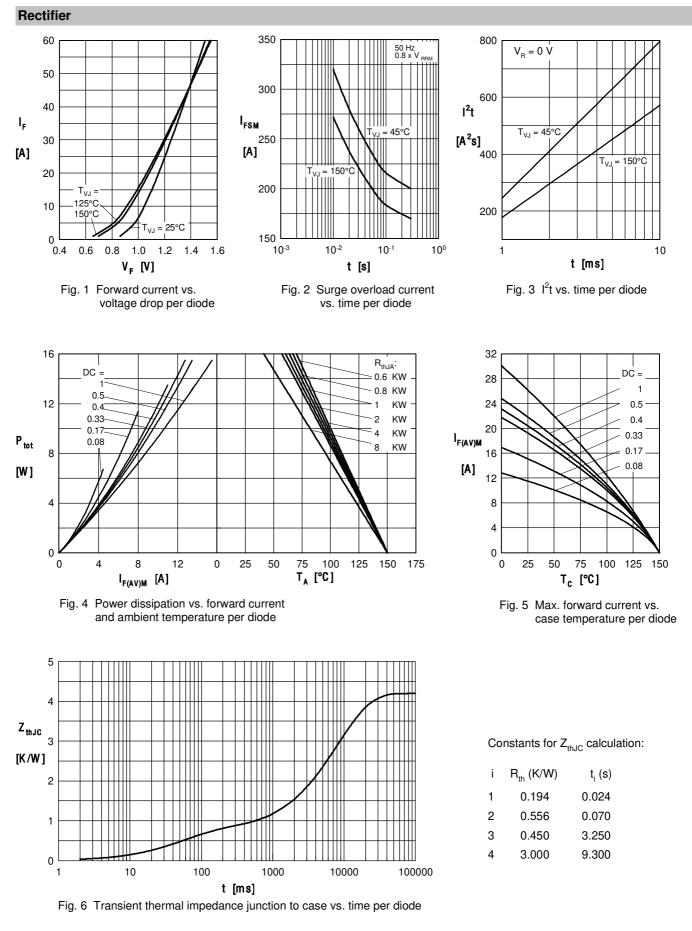
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