

# **VUO35-08NO7**

Phase out

3~ Rectifier					
$V_{\text{RRM}}$	=	800 V			
IDAV	=	35 A			
Lecu	=	400 A			

# **Standard Rectifier Module**

# PHASE OUT

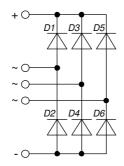
3~ Rectifier Bridge

Part number

VUO35-08NO7







#### 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 isolated
- Advanced power cycling

# Recommended replacement: VUO35-12NO7

#### 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 60747 and per semiconductor unless otherwise specified

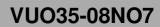
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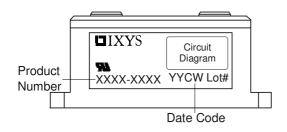
typ.	900 800 40 1.5 1.10	Unit V V μA mA
	800 40 1.5 1.10	V μA mA
	40 1.5 1.10	μA mA
	1.5	mA
	1.10	1
		٧
	1 38	
	1.00	٧
	1.01	V
	1.38	٧
	35	Α
		! !
	0.80	V
	12.9	mΩ
	4.2	K/W
0.6		K/W
	29	W
	400	Α
	430	Α
	340	Α
	365	Α
	800	A <sup>2</sup> s
	770	A²s
	580	A <sup>2</sup> s
	555	A²s
10		pF
	0.6	0.80 12.9 4.2 0.6 29 400 430 340 365 800 770 580 555

# PHASE OUT





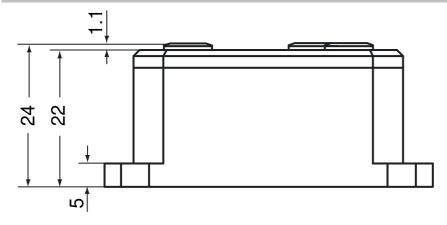
Package	PWS-A				Ratings	S	
Symbol	Definition	Conditions		min.	typ.	max.	Unit
I <sub>RMS</sub>	RMS current	per terminal				100	Α
T <sub>VJ</sub>	virtual junction temperature			-40		150	°C
T <sub>op</sub>	operation temperature			-40		125	°C
T <sub>stg</sub>	storage temperature			-40		125	°C
Weight					100		g
M <sub>D</sub>	mounting torque			1.25		1.75	Nm
$\mathbf{M}_{_{T}}$	terminal torque			1.25		1.75	Nm
d <sub>Spp/App</sub>	creepage distance on surface   striking distance throug		terminal to terminal	6.5			mm
$d_{\text{Spb/Apb}}$			terminal to backside	8.5			mm
V <sub>ISOL</sub>	isolation voltage	t = 1 second		3000			V
1002		t = 1 minute	50/60 Hz, RMS; IISOL ≤ 1 mA	2500			٧

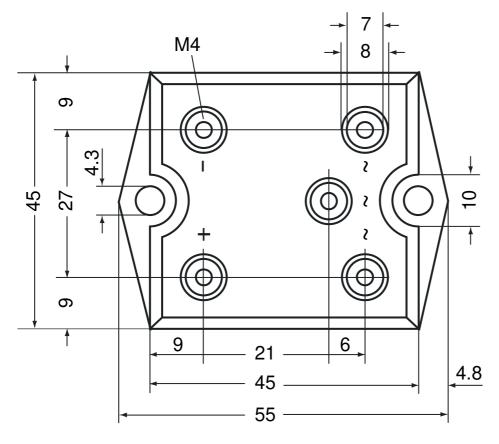


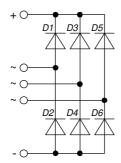
Ordering	Ordering Number	Marking on Product	Delivery Mode	Quantity	Code No.
Standard	VUO35-08NO7	VUO35-08NO7	Box	20	502541

Equiva	alent Circuits for	Simulation	* on die level	$T_{VJ} = 150 ^{\circ}\text{C}$
$I \rightarrow V_0$	$R_0$	Rectifier		
V <sub>0 max</sub>	threshold voltage	8.0		V
$R_{0 \text{ max}}$	slope resistance *	11.7		$m\Omega$

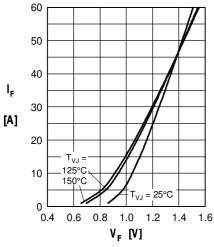
### **Outlines PWS-A**







#### Rectifier



V<sub>F</sub> [V]
Fig. 1 Forward current vs.
voltage drop per diode

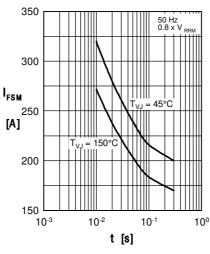


Fig. 2 Surge overload current vs. time per diode

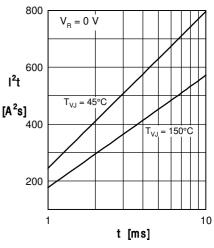


Fig. 3 I<sup>2</sup>t vs. time per diode

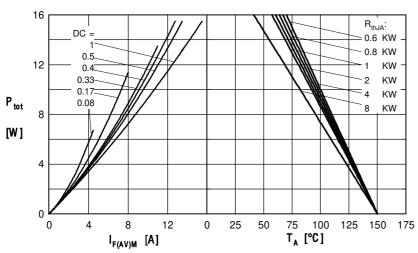


Fig. 4 Power dissipation vs. forward current and ambient temperature per diode

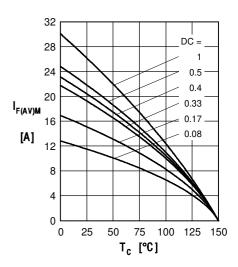


Fig. 5 Max. forward current vs. case temperature per diode

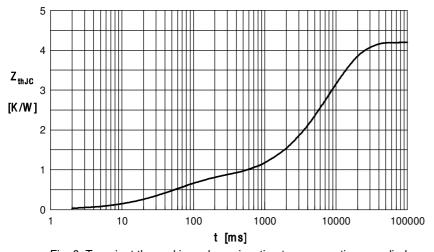


Fig. 6 Transient thermal impedance junction to case vs. time per diode

Constants for  $Z_{thJC}$  calculation:

i	$R_{th}$ (K/W)	t <sub>i</sub> (s)
1	0.194	0.024
2	0.556	0.070
3	0.450	3.250
4	3.000	9.300

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