imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Standard Rectifier Module

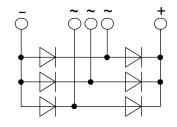
3~ Rectifier Bridge

Part number VUO55-16NO7

3~ Rectifier					
V_{RRM}	=	1600 V			
\mathbf{I}_{DAV}	=	60 A			
I_{FSM}	=	750 A			



E72873



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-B

- Industry standard outline
- RoHS compliant
- Easy to mount with two screws
- Base plate: Aluminium internally DCB isolated
- Advanced power cycling

VUO55-16NO7

LIXYS

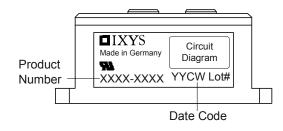
VUO55-16NO7

Rectifie	r				Ratings	6	
Symbol	Definition	Conditions		min.	typ.	max.	Unit
V _{RSM}	max. non-repetitive reverse bloc	$T_{VJ} = 25^{\circ}C$			1700	V	
V _{RRM}	max. repetitive reverse blocking	voltage	$T_{VJ} = 25^{\circ}C$			1600	V
I _R	reverse current	V _R = 1600 V	$T_{VJ} = 25^{\circ}C$			100	μA
		V _R = 1600 V	$T_{v_{J}} = 150^{\circ}C$			1.5	mA
V _F	forward voltage drop	I _F = 20 A	$T_{vJ} = 25^{\circ}C$			1.03	V
		I _F = 60 A				1.23	V
		I _F = 20 A	T _{vJ} =125 °C			0.92	V
		I _F = 60 A				1.18	V
DAV	bridge output current	$T_c = 85^{\circ}C$	T _{vJ} = 150°C			60	А
		rectangular $d = \frac{1}{3}$					
V _{F0}	threshold voltage		T _{vJ} = 150°C			0.76	V
r _F	slope resistance } for power	loss calculation only				6.9	mΩ
R _{thJC}	thermal resistance junction to ca	ase				2.7	K/W
R _{thCH}	thermal resistance case to heats	sink			0.4		K/W
P _{tot}	total power dissipation		$T_c = 25^{\circ}C$			46	W
I _{FSM}	max. forward surge current	t = 10 ms; (50 Hz), sine	$T_{vJ} = 45^{\circ}C$			750	Α
		t = 8,3 ms; (60 Hz), sine	$V_{R} = 0 V$			810	Α
		t = 10 ms; (50 Hz), sine	T _{vJ} = 150°C			640	A
		t = 8,3 ms; (60 Hz), sine	$V_R = 0 V$			690	A
l²t	value for fusing	t = 10 ms; (50 Hz), sine	$T_{vJ} = 45^{\circ}C$			2.82	kA²s
		t = 8,3 ms; (60 Hz), sine	$V_R = 0 V$			2.73	kA²s
		t = 10 ms; (50 Hz), sine	T _{vJ} = 150°C			2.05	kA²s
		t = 8,3 ms; (60 Hz), sine	$V_R = 0 V$			1.98	kA²s
C	junction capacitance	V _R = 400 V; f = 1 MHz	$T_{VJ} = 25^{\circ}C$		10		pF

20130306a



Package PWS-B				Ratings			
Symbol	Definition	Conditions		min.	typ.	max.	Unit
	RMS current	per terminal				100	Α
T _{stg}	storage temperature			-40		125	°C
T _{vJ}	virtual junction temperature			-40		150	°C
Weight					203		g
M _D	mounting torque			4.25		5.75	Nm
M _T	terminal torque			2.5		3.5	Nm
d _{Spp/App}	creepage distance on surface striking distance through air		terminal to terminal	11.0			mm
d _{Spb/Apb}			terminal to backside	7.5			mm
	isolation voltage	t = 1 second		3000			V
	t = 1 minute		50/60 Hz, RMS; liso∟ ≤ 1 mA	2500			V



Ordering	Part Number	Marking on Product	Delivery Mode	Quantity	Code No.
Standard	VUO55-16NO7	VUO55-16NO7	Box	10	456691

Equiv	alent Circuits for	Simulation	* on die level	T _{vJ} = 150 °C
)- <u>R</u>	Rectifier		
V _{0 max}	threshold voltage	0.76		V
$R_{0 max}$	slope resistance *	5.7		mΩ

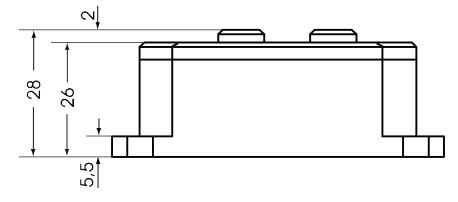
IXYS reserves the right to change limits, conditions and dimensions.

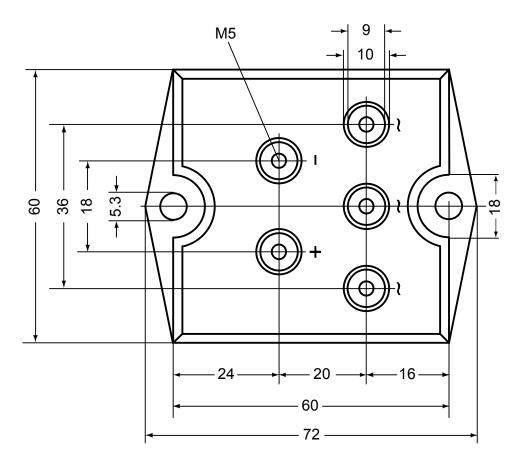
20130306a

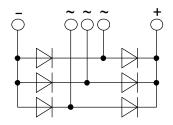
LIXYS

VUO55-16NO7

Outlines PWS-B







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

20130306a

VUO55-16NO7

