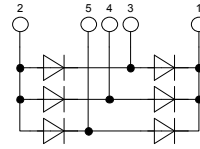


Standard Rectifier Module

3~ Bipolar Bridge

 $V_{RRM} = 1600\text{ V}$
 $I_{DAV} = 72\text{ A}$
 $V_F = 1.02\text{ V}$

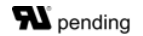
Part number

VUO64-16NO7

Features / Advantages:

- Planar passivated chips
- Very low leakage current
- Very low forward voltage drop
- Improved thermal behaviour

Applications:

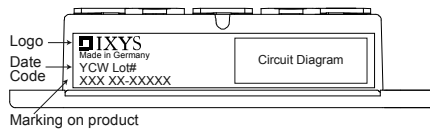
- Diode Bridge for main rectification

Package:


- Housing: PWS-D Flat
- Cu base plate internal DCB isolated
- Easy to mount with two screws
- RoHS compliant

Symbol	Definition	Conditions	Ratings			Unit	
			min.	typ.	max.		
V_{RRM}	max. repetitive reverse voltage				1600	V	
I_R	reverse current	$V_R = 1600\text{ V}$			40	μA	
		$V_R = 1600\text{ V}$			1.5	mA	
V_F	forward voltage	$I_F = 25\text{ A}$			1.11	V	
		$I_F = 50\text{ A}$			1.24	V	
		$I_F = 25\text{ A}$	$T_{VJ} = 125^\circ\text{C}$			1.02	V
		$I_F = 50\text{ A}$				1.23	V
I_{DAV}	bridge output current	120° sine			72	A	
V_{FO}	threshold voltage	} for power loss calculation only			0.79	V	
r_F	slope resistance				8.3	m Ω	
R_{thJC}	thermal resistance junction to case				0.95	K/W	
T_{VJ}	virtual junction temperature		-40		150	$^\circ\text{C}$	
P_{tot}	total power dissipation				130	W	
I_{FSM}	max. forward surge current	t = 10 ms; (50 Hz), sine	$T_{VJ} = 45^\circ\text{C}$		550	A	
		t = 8,3 ms; (60 Hz), sine	$V_R = 0\text{ V}$		595	A	
		t = 10 ms; (50 Hz), sine	$T_{VJ} = 150^\circ\text{C}$		470	A	
		t = 8,3 ms; (60 Hz), sine	$V_R = 0\text{ V}$		505	A	
I^2t	value for fusing	t = 10 ms; (50 Hz), sine	$T_{VJ} = 45^\circ\text{C}$		1.52	kA ² s	
		t = 8,3 ms; (60 Hz), sine	$V_R = 0\text{ V}$		1.48	kA ² s	
		t = 10 ms; (50 Hz), sine	$T_{VJ} = 150^\circ\text{C}$		1.11	kA ² s	
		t = 8,3 ms; (60 Hz), sine	$V_R = 0\text{ V}$		1.06	kA ² s	
C_J	junction capacitance	$V_R = 400\text{ V}; f = 1\text{ MHz}$	$T_{VJ} = 25^\circ\text{C}$		19	pF	

Symbol	Definition	Conditions	Ratings			Unit
			min.	typ.	max.	
I_{RMS}	RMS current	per pin			200	A
R_{thCH}	thermal resistance case to heatsink			0.10		K/W
T_{stg}	storage temperature		-40		125	°C
Weight				118		g
M_D	mounting torque		4.25		5.75	Nm
V_{ISOL}	isolation voltage	t = 1 second	3600			V
		t = 1 minute	3000			V
d_s	creepage distance on surface		10			mm
d_A	striking distance through air		9.4			mm



Ordering	Part Name	Marking on Product	Delivering Mode	Base Qty	Code Key
Standard	VUO64-16N07	VUO64-16N07	Box	10	508503

Similar Part	Package	Voltage class
VUO62-16N07	PWS-D	1600

Outlines PWS-D Flat

