SanRex®

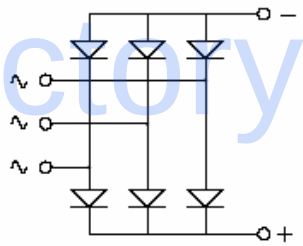
Three Phase Rectifier Bridge Module (Low Profile of 17mm height)

DF200AC series

$I_{F(AV)}$= 200A, V_{RRM}= 800- 1800V

SanRex Three Phase Rectifier Bridge Module **DF200AC series** is designed for applications requiring low profile converter-inverter circuit designs. Thanks to the **17mm flat case height design**, the **DF200AC series** can be connected with IGBT or MOSFET modules at the same 17mm case height. This advantage typically reduces the needed parts and manufacturing cost. It also enables level parallel connections for larger capacity, contributes reducing stray inductance, improving high efficiency and reliability.

Isolated Package



Internal schematic diagram

Features

* Low Case Height of 17mm
* Enable easy parallel connection
* Very Low Forward Voltage Drop
* High Surge Current Capability
* RoHS Compliance

Typical Applications

* Welding and Plasma Cutting Machines
* Battery Chargers
* Power Supplies
* Motor Controls

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< Maximum Ratings > Tj = 25°C (unless otherwise noted)

Symbol	Item	DF200AC80	DF200AC160	DF200AC180	Unit
V_{RRM}	Repetitive Peak Reverse Voltage	800	1600	1800	V
V_{RSM}	Non-Repetitive Peak Reverse Voltage	960	1700	1900	V

Symbol	Item		Conditions	Ratings	Unit
$I_{F(AV)}$	Average Forward Current		Three phase, Full wave, T_C = 106°C	200	A
I_{FSM}	Surge Forward Current		1cycle, 60Hz, Peak value, non-repetitive	2000	A
I^2t	I^2t (for fusing)		Value for one cycle surge current	17000	A^2s
T_j	Junction Temperature			-40 to +150	°C
T_{stg}	Storage Temperature			-40 to +125	°C
V_{ISO}	Isolation Voltage (R.M.S.)		A.C. 1 minute	2500	V
	Mounting Torque	Mounting M5	Recommended 1.5-2.5	2.7	N·m
		Terminal M5	Recommended 1.5-2.5	2.7	
	Mass		Typical Value	290	g

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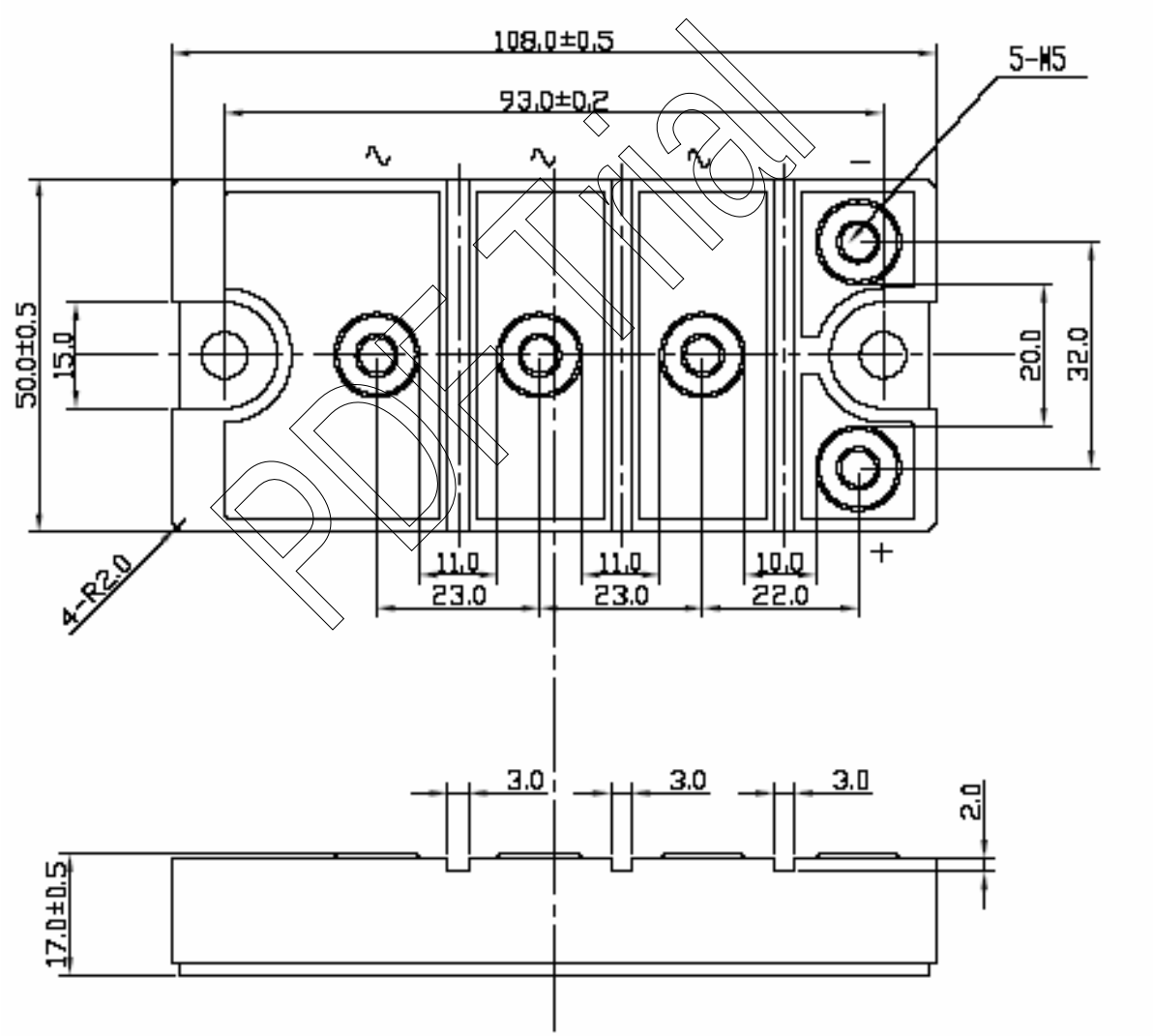
Three Phase Rectifier Bridge Modules — DF200AC series

< Electrical Characteristics > Tj= 25°C (unless otherwise noted)

Symbol	Item	Conditions	Ratings			Unit
			Min.	Typ.	Max.	
I_{RRM}	Repetitive Peak Reverse Current	$V_R = V_{RRM}$, Tj= 150°C			20.0	mA
V_{FM}	Forward Voltage Drop	I_F= 200A, Inst. measurement			1.50	V
$R_{th(j-c)}$	Thermal Resistance	Junction to case			0.09	°C/W



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* Dimensions in millimeters (1mm=0.0394")

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