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 converterinverter 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.

Features

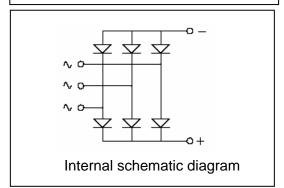
- * Low Case Height of 17mm
- * Enable easy parallel connection
- * Very Low Forward Voltage Drop
- * High Surge Current Capability
- * RoHS Compliance

Typical Applications

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



Isolated Package



 $T_i = 25^{\circ}C$ (unless otherwise noted)

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

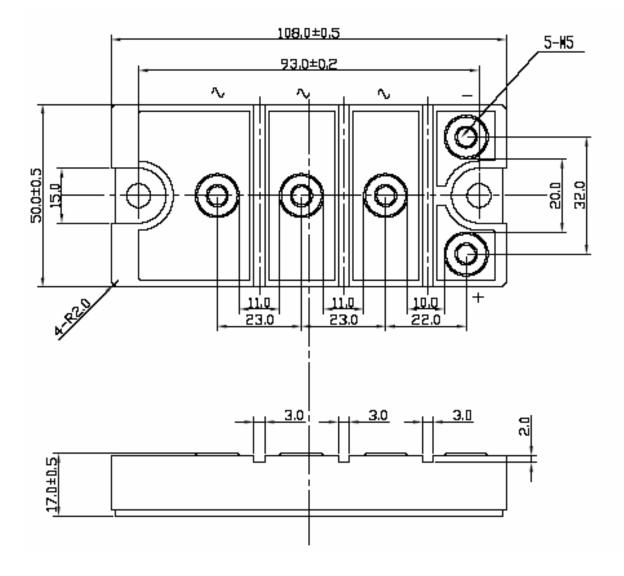
Symbol		Item	Conditions	Ratings	Unit
I _{F(AV)}	Average Forward Current		Three phase, Full wave, T _C = 106°C	200	Α
I _{FSM}	Surge Forward Current		1cycle, 60Hz, Peak value, non- repetitive	2000	А
l²t	I 2t (for fusing)		Value for one cycle surge current	17000	A ² s
Tj	Junction Temperature			-40 to +150	°C
Tstg	Storage Temperature			-40 to +125	°C
V _{ISO}	Isolation Voltage (R.M.S.)		A.C. 1 minute	2500	V
	Mounting	Mounting M5	Recommended 1.5-2.5	2.7	N·m
	Torque	Terminal M5	Recommended 1.5-2.5	2.7	
	Mass		Typical Value	290	g

Three Phase Rectifier Bridge Modules

DF200AC series

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

Symbol	Item	Conditions	Ratings			Unit
			Min.	Тур.	Max.	
I _{RRM}	Repetitive Peak Reverse Current	$V_R = V_{RRM}$, $T_{j=150^{\circ}C}$			20.0	mA
V_{FM}	Forward Voltage Drop	I _F = 200A, Inst. measurement			1.50	V
Rth(j-c)	Thermal Resistance	Junction to case			0.09	°C/W



^{*} Dimensions in millimeters (1mm=0.0394")