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

DF150AC series

IF(AV)= 150A, VRRM= 800- 1800V

SanRex Three Phase Rectifier Bridge Module DF150AC series is designed for applications requiring low profile converterinverter circuit designs. Thanks to the 17mm flat case height design, the DF150AC 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

<	Maximum	Ratings	>
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	Isolated Package



Internal schematic diagram

< Maximum Ratings > Tj = 25°C (unless otherwise no					wise noted)
	Item	Item DF150AC80 DF150AC160 DF150AC180			
Symbol					
V _{RRM}	Repetitive Peak Reverse Voltage	800	1600	1800	V
V_{RSM}	Non-Repetitive Peak Reverse Voltage	960	1700	1900	V

Symbol	l Item		Conditions	Ratings	Unit
I _{F(AV)}	Average Forward Current		Three phase, Full wave, T _c = 106°C	150	A
I _{FSM}	Surge Forward Current		1cycle, 60Hz, Peak value, non- repetitive	1200	A
l ² t	l ² t (for fusing)		Value for one cycle surge current	6000	A ² s
Tj	Junction Temperature			-40 to +150	°C
Tstg	Storage Temperature			-40 to +125	°C
VISO	Isolation V	oltage (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

DF150AC series

< Electrical Characteristics >		Tj= 25°	Tj= 25 C (unless otherwise noted)			
Symbol	Item	Conditions		Ratings		
			Min.	Тур.	Max.	
I _{RRM}	Repetitive Peak Reverse Current	$V_{R} = V_{RRM}$, Tj= 150°C			15.0	mA
V_{FM}	Forward Voltage Drop	I _F = 150A, Inst. measurement			1.20	V
Rth(j-c)	Thermal Resistance	Junction to case			0.12	°C/W



* Dimensions in millimeters (1mm=0.0394")

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