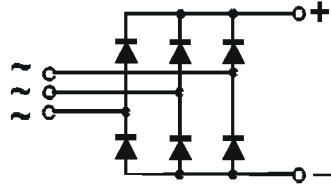


Three Phase Rectifier Bridge Slim Version

Data Sheet

V_{RSM}	V_{RRM}
V_{DSM}	V_{DRM}
(V)	(V)
800	800
1200	1200
1400	1400
1600	1600
1800	1800



$$I_{dAV} = 100 \text{ A}$$

$$V_{RRM} = 800-1800 \text{ V}$$



- ∞ Low profile (overall height: 17 mm)
- ∞ Package with screw terminals
- ∞ Isolation voltage 3000 V□
- ∞ Planar glass passivated chips
- ∞ Blocking voltage up to 1800 V
- ∞ Low forward voltage drop
- ∞ UL release applied, RoHS conform

Symbol	Test Conditions	Maximum Ratings
I_{dAVM}	$T_C = 100 \text{ }^\circ\text{C}$, (per module)	100 A
I_{FSM}	$T_{VJ} = 45 \text{ }^\circ\text{C}$ t = 10 ms (50 Hz), sine	1200 A
	$V_R = 0$ t = 8.3 ms (60 Hz), sine	1300 A
	$T_{VJ} = T_{VJM}$ t = 10 ms (50 Hz), sine	1000 A
	$V_R = 0$ t = 8.3 ms (60 Hz), sine	1100 A
$\int i^2 dt$	$T_{VJ} = 45 \text{ }^\circ\text{C}$ t = 10 ms (50 Hz), sine	7200 A ² s
	$V_R = 0$ t = 8.3 ms (60 Hz), sine	7020 A ² s
	$T_{VJ} = T_{VJM}$ t = 10 ms (50 Hz), sine	5000 A ² s
	$V_R = 0$ t = 8.3 ms (60 Hz), sine	5020 A ² s
T_{VJ}		-40... + 150 °C
T_{VJM}		150 °C
T_{stg}		-40... + 125 °C
V_{ISOL}	50/60 Hz, RMS t = 1 min	2500 V□
	I_{ISOL} " 1 mA t = 1 s	3000 V□
M_d	Max. mounting torque (M5)	5 Nm
	Max. terminal connection torque (M5)	5 Nm
Weight	typ.	120 g

Applications

- ∞ Supplies for DC power equipment
- ∞ Input rectifier for PWM inverter
- ∞ Battery DC power supplies
- ∞ Field supply for DC motors
- ∞ etc.

Advantages

- ∞ Easy to mount with two screws
- ∞ Space and weight savings
- ∞ Improved temperature and power cycling capability

Symbol	Test Conditions	Characteristic Value
I_R	$V_R = V_{RRM}$, $T_{VJ} = 25 \text{ }^\circ\text{C}$	0.3 mA
	$V_R = V_{RRM}$, $T_{VJ} = T_{VJM}$	5 mA
V_F	$I_F = 100 \text{ A}$, $T_{VJ} = 25 \text{ }^\circ\text{C}$	1.35 V
V_{TO}	For power-loss calculations only	0.8 V
r_T		5 m
R_{thJC}	per diode; DC current	0.58 K/W
	per module	0.097 K/W
R_{thJK}	per diode; DC current	0.825 K/W
	per module	0.138 K/W
d_s	Creeping distance on surface	10.0 mm
d_A	Creeping distance in air	9.4 mm
a	Max. allowable acceleration	50 m/s ²

Data according to IEC 60747 refer to a single diode unless otherwise stated

Package style and outline

Dimensions in mm (1mm = 0.0394")

Max. allowed screw-in depth: 8.5 mm

