

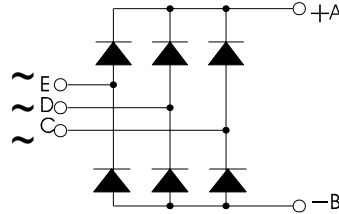
Three Phase Rectifier Bridges

PSD 50

$I_{dAVM} = 80 \text{ A}$
 $V_{RRM} = 800-1800 \text{ V}$

Preliminary Data Sheet

V_{RSM} V	V_{RRM} V	Type
800	800	PSD 50/08
1200	1200	PSD 50/12
1400	1400	PSD 50/14
1600	1600	PSD 50/16
1800	1800	PSD 50/18



Symbol	Test Conditions	Maximum Ratings
I_{dAVM}	$T_C = 110^\circ\text{C}$, module	80 A
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$ $V_R = 0$ $t = 10 \text{ ms}$ (50 Hz), sine	675 A
	$t = 8.3 \text{ ms}$ (60 Hz), sine	730 A
	$T_{VJ} = T_{VJM}$ $V_R = 0$ $t = 10 \text{ ms}$ (50 Hz), sine	660 A
	$t = 8.3 \text{ ms}$ (60 Hz), sine	600 A
$\int i^2 dt$	$T_{VJ} = 45^\circ\text{C}$ $V_R = 0$ $t = 10 \text{ ms}$ (50 Hz), sine	2550 $\text{A}^2 \text{ s}$
	$t = 8.3 \text{ ms}$ (60 Hz), sine	2550 $\text{A}^2 \text{ s}$
	$T_{VJ} = T_{VJM}$ $V_R = 0$ $t = 10 \text{ ms}$ (50 Hz), sine	2025 $\text{A}^2 \text{ s}$
	$t = 8.3 \text{ ms}$ (60 Hz), sine	2025 $\text{A}^2 \text{ s}$
T_{VJ}		-40 ... + 150 $^\circ\text{C}$
T_{VJM}		150 $^\circ\text{C}$
T_{stg}		-40 ... + 125 $^\circ\text{C}$
V_{ISOL}	50/60 HZ, RMS $t = 1 \text{ min}$	2500 V ~
	$I_{ISOL} \leq 1 \text{ mA}$ $t = 1 \text{ s}$	3000 V ~
M_d	Mounting torque (M5)	5 Nm
	Terminal connection torque (M5)	5 Nm
Weight	typ.	220 g

Features

- Package with screw terminals
- Isolation voltage 3000 V~
- Planar glasspassivated chips
- Blocking voltage up to 1800 V
- Low forward voltage drop
- UL registered E 148688

Applications

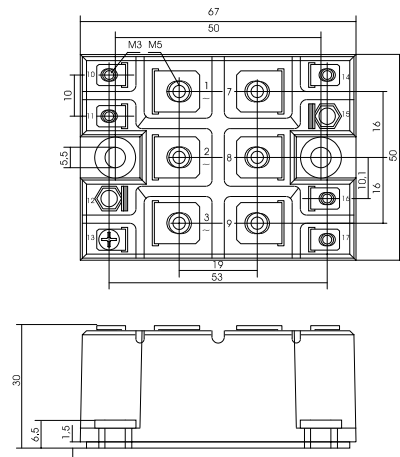
- Supplies for DC power equipment
- Input rectifiers for PWM inverter
- Battery DC power supplies
- Field supply for DC motors

Advantages

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

Package, style and outline

Dimensions in mm (1mm = 0.0394")



Symbol	Test Conditions	Characteristic Value
I_R	$V_R = V_{RRM}$ $T_{VJ} = 25^\circ\text{C}$	$\leq 0.3 \text{ mA}$
	$V_R = V_{RRM}$ $T_{VJ} = T_{VJM}$	$\leq 5 \text{ mA}$
V_F	$I_F = 150 \text{ A}$ $T_{VJ} = 25^\circ\text{C}$	$\leq 1.6 \text{ V}$
V_{TO}	For power-loss calculations only	0.8 V
r_T	$T_{VJ} = T_{VJM}$	5 $\text{m}\Omega$
R_{thJC}	per diode; DC current	1.1 K/W
	per module	0.183 K/W
R_{thJK}	per diode; DC current	1.52 K/W
	per module	0.253 K/W
d_S	Creeping distance on surface	8.0 mm
d_A	Creeping distance in air	4.5 mm
a	Max. allowable acceleration	50 m/s^2

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