

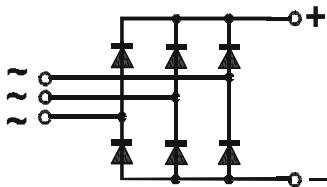
Three Phase Rectifier Bridge

PSD 82

$$\begin{array}{l} I_{dAV} = 88 \text{ A} \\ V_{RRM} = 800-1800 \text{ V} \end{array}$$

Preliminary Data Sheet

V_{RSM}	V_{RRM}	Type
V_{DSM} (V)	V_{DRM} (V)	
800	800	PSD 82/08
1200	1200	PSD 82/12
1400	1400	PSD 82/14
1600	1600	PSD 82/16
1800	1800	PSD 82/18



Symbol	Test Conditions	Maximum Ratings
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I_{dAVM}	$T_C = 110 \text{ }^{\circ}\text{C}$, (per module)	88	A
I_{FSM}	$T_{VJ} = 45 \text{ }^{\circ}\text{C}$ $t = 10 \text{ ms}$ (50 Hz), sine	750	A
	$V_R = 0$ $t = 8.3 \text{ ms}$ (60 Hz), sine	820	A
	$T_{VJ} = T_{VJM}$ $t = 10 \text{ ms}$ (50 Hz), sine	670	A
	$V_R = 0$ $t = 8.3 \text{ ms}$ (60 Hz), sine	740	A
$\int i^2 dt$	$T_{VJ} = 45 \text{ }^{\circ}\text{C}$ $t = 10 \text{ ms}$ (50 Hz), sine	2800	A^2s
	$V_R = 0$ $t = 8.3 \text{ ms}$ (60 Hz), sine	2800	A^2s
	$T_{VJ} = T_{VJM}$ $t = 10 \text{ ms}$ (50 Hz), sine	2250	A^2s
	$V_R = 0$ $t = 8.3 \text{ ms}$ (60 Hz), sine	2250	A^2s
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	$\text{V}\sim$
	$I_{ISOL} \leq 1 \text{ mA}$ $t = 1 \text{ s}$	3000	$\text{V}\sim$
M_d	Mounting torque (M5)	5	Nm
	Terminal connection torque (M5)	5	Nm
Weight	typ.	160	g

Symbol	Test Conditions	Characteristic Value
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I_R	$V_R = V_{RRM}$, $T_{VJ} = 25^\circ C$	\leq	0.3	mA
	$V_R = V_{RRM}$, $T_{VJ} = T_{VJM}$	\leq	5	mA
V_F	$I_F = 150 A$, $T_{VJ} = 25^\circ C$	\leq	1.6	V
V_{TO}	For power-loss calculations only		0.8	V
r_T			5	$m\Omega$
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		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

Features

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

Applications

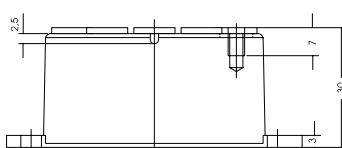
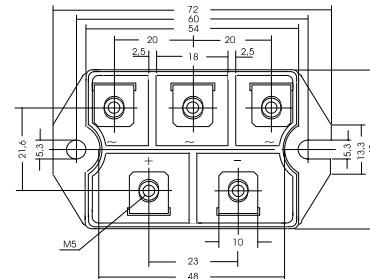
- Supplies for DC power equipment
 - Input rectifier for PWM inverter
 - Battery DC power supplies
 - Field supply for DC motors

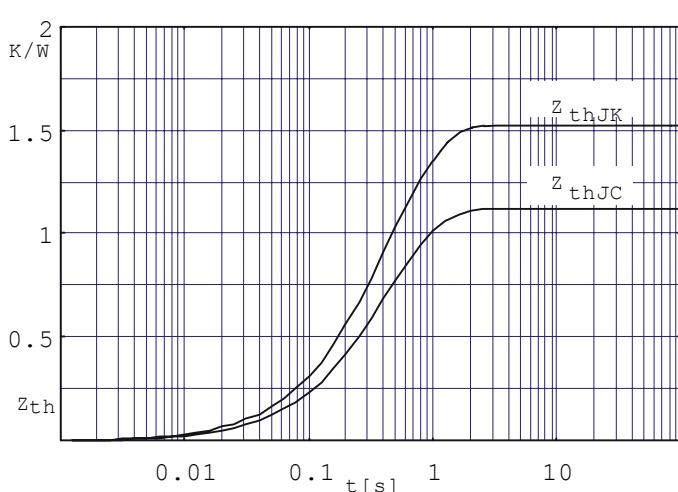
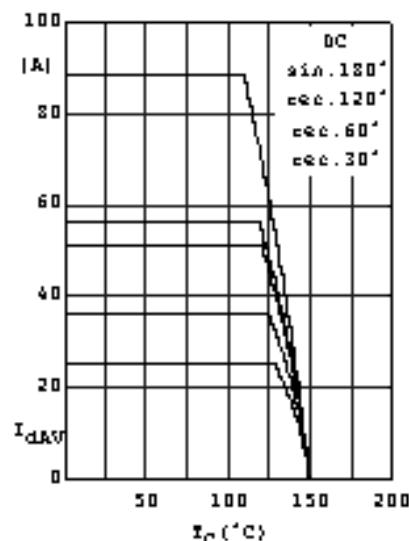
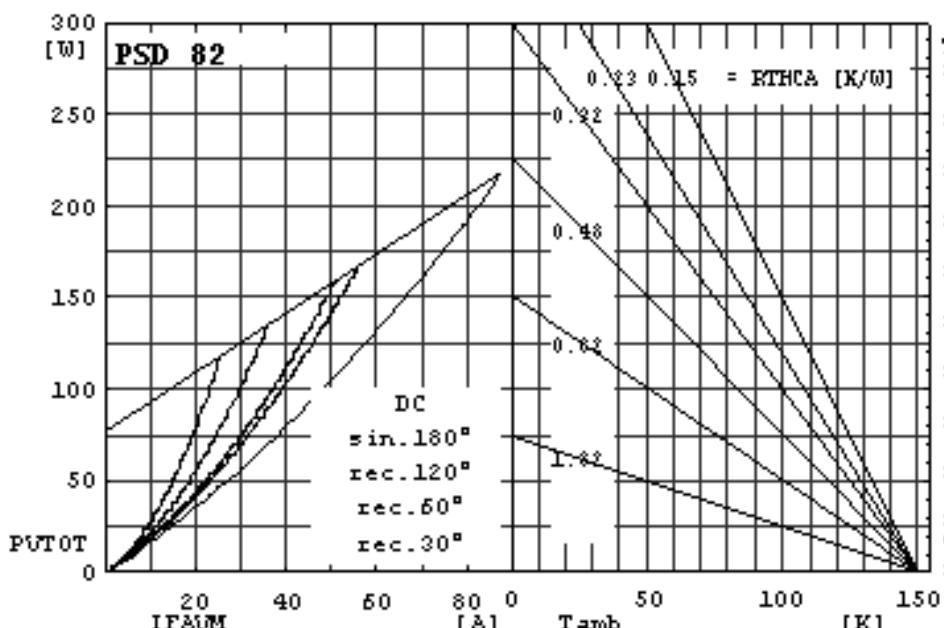
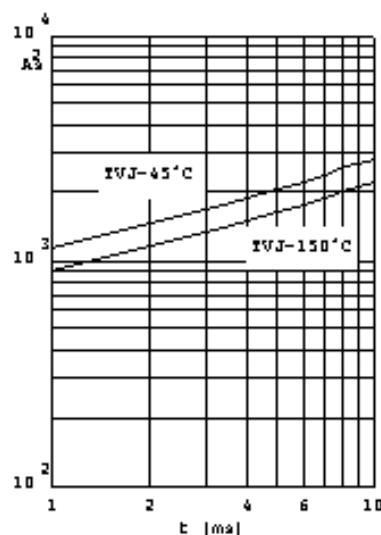
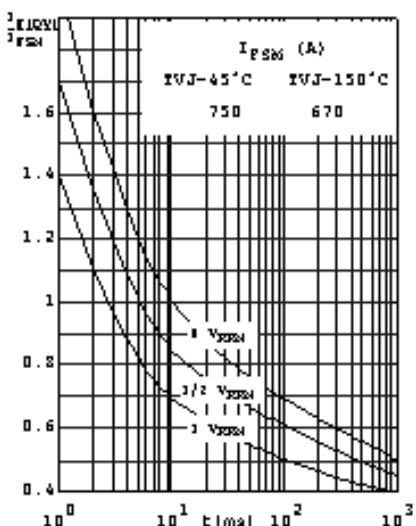
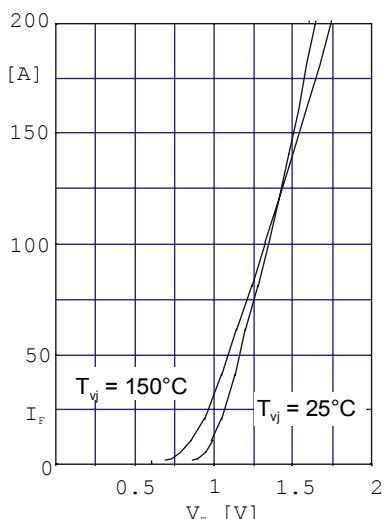
Advantages

- 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")





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