

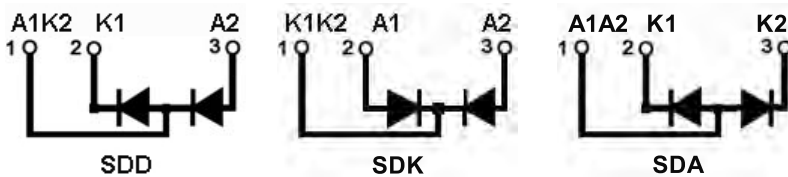
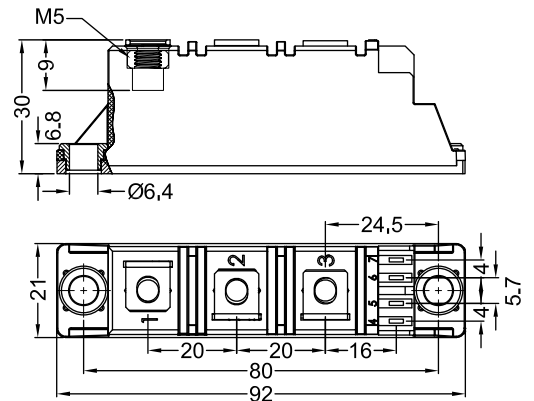
# SDD1&0NXXB

## Diode-Diode Modules



Type	V <sub>RSM</sub> V	V <sub>RRM</sub> V
SDD120N08B	900	800
SDD120N12B	1300	1200
SDD120N14B	1500	1400
SDD120N16B	1700	1600
SDD120N18B	1900	1800
SDD120N20B	2100	2000
SDD120N22B	2300	2200

Holerance: ±0.5mm  
Dimensions in mm (1mm=0.0394")



Symbol	Test Conditions	Maximum Ratings	Unit
I <sub>FRMS</sub> I <sub>FAVM</sub>	T <sub>VJ</sub> =T <sub>VJM</sub> T <sub>C</sub> =100°C; 180° sine	188 120	A
I <sub>FSM</sub>	T <sub>VJ</sub> =45°C V <sub>R</sub> =0 t=10ms (50Hz), sine t=8.3ms (60Hz), sine	2800 3300	A
	T <sub>VJ</sub> =T <sub>VJM</sub> V <sub>R</sub> =0 t=10ms(50Hz), sine t=8.3ms(60Hz), sine	2500 2750	
∫i <sup>2</sup> dt	T <sub>VJ</sub> =45°C V <sub>R</sub> =0 t=10ms (50Hz), sine t=8.3ms (60Hz), sine	39200 45000	A <sup>2</sup> s
	T <sub>VJ</sub> =T <sub>VJM</sub> V <sub>R</sub> =0 t=10ms(50Hz), sine t=8.3ms(60Hz), sine	31200 31300	
T <sub>VJ</sub> T <sub>VJM</sub> T <sub>stg</sub>		-40...+150 150 -40...+125	°C
V <sub>ISOL</sub>	50/60Hz, RMS I <sub>ISOL</sub> ≤1mA t=1min t=1s	3000 3600	V~
M <sub>d</sub>	Mounting torque (M5) Terminal connection torque (M5)	2.5-4/22-35 2.5-4/22-35	Nm/lb.in.
Weight	Typ.	105	g

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## Diode-Diode Modules

Symbol	Test Conditions	Characteristic Values	Unit
<b>I<sub>R</sub></b>	T <sub>VJ</sub> =T <sub>VJM</sub> ; V <sub>R</sub> =V <sub>RRM</sub>	15	mA
<b>V<sub>F</sub></b>	I <sub>F</sub> =360A; T <sub>VJ</sub> =25°C	1.63	V
<b>V<sub>To</sub></b>	For power-loss calculations only	0.75	V
<b>r<sub>T</sub></b>	T <sub>VJ</sub> =T <sub>VJM</sub>	1.95	Ω
<b>Q<sub>s</sub></b>	T <sub>VJ</sub> =125°C; I <sub>F</sub> =50A; -di/dt=3A/us	170	uC
<b>I<sub>RM</sub></b>		45	A
<b>R<sub>thJC</sub></b>	per diode; DC current per module	0.30 0.145	K/W
<b>R<sub>thJK</sub></b>	per diode; DC current per module	0.50 0.245	K/W
<b>d<sub>s</sub></b>	Creepage distance on surface	12.7	mm
<b>d<sub>A</sub></b>	Strike distance through air	9.6	mm
<b>a</b>	Maximum allowable acceleration	50	m/s <sup>2</sup>

### FEATURES

- \* International standard package
- \* Copper base plate
- \* Glass passivated chips
- \* Isolation voltage 3600 V~
- \* UL file NO.310749
- \* RoHs compliant

### APPLICATIONS

- \* Supplies for DC power equipment
- \* DC supply for PWM inverter
- \* Field supply for DC motors
- \* Battery DC power supplies

### ADVANTAGES

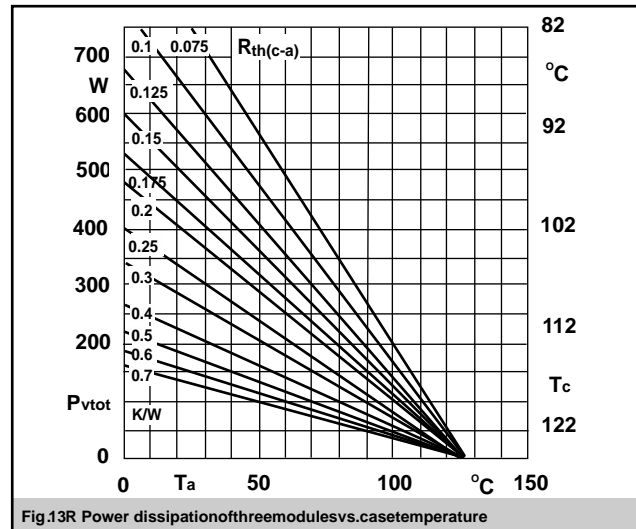
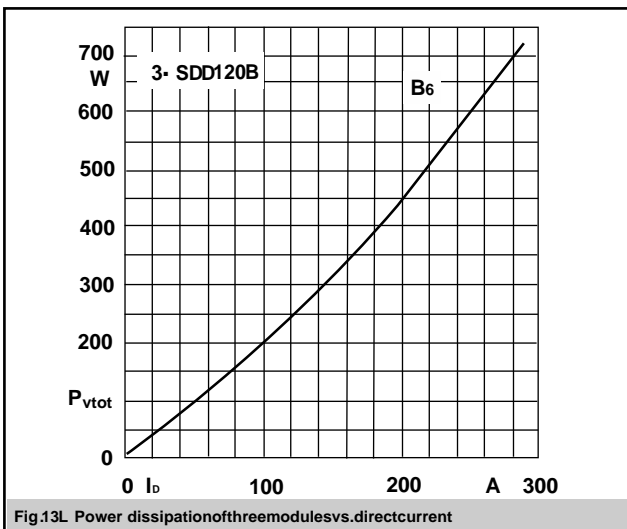
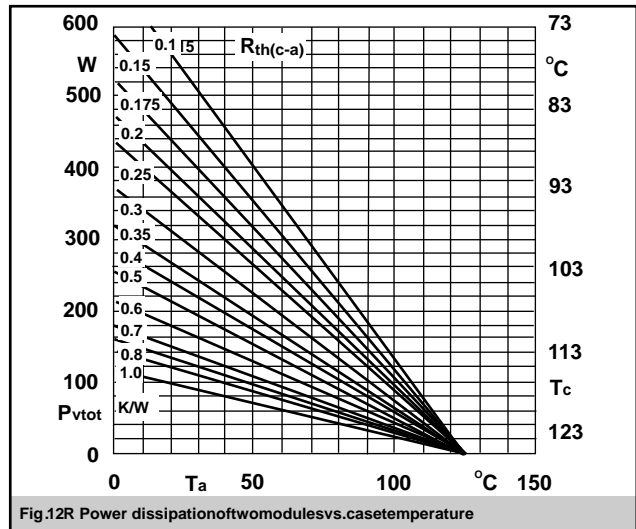
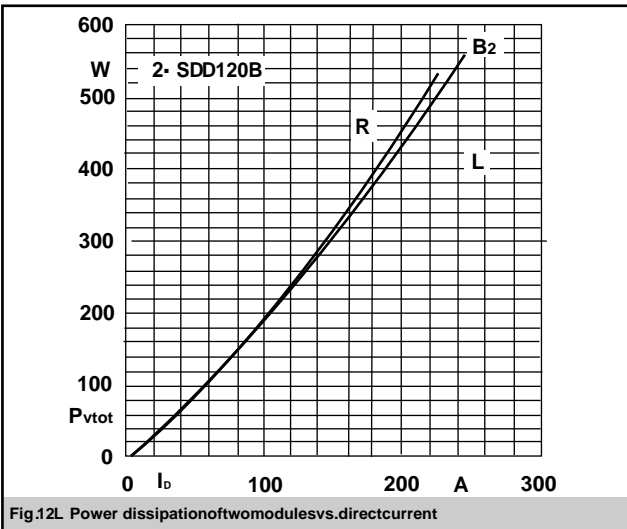
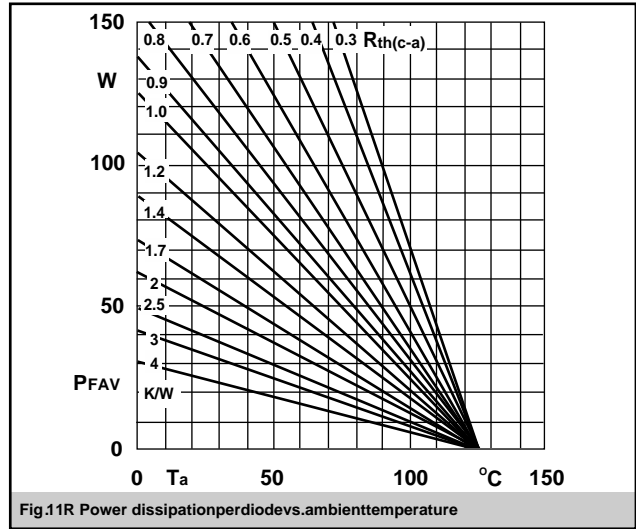
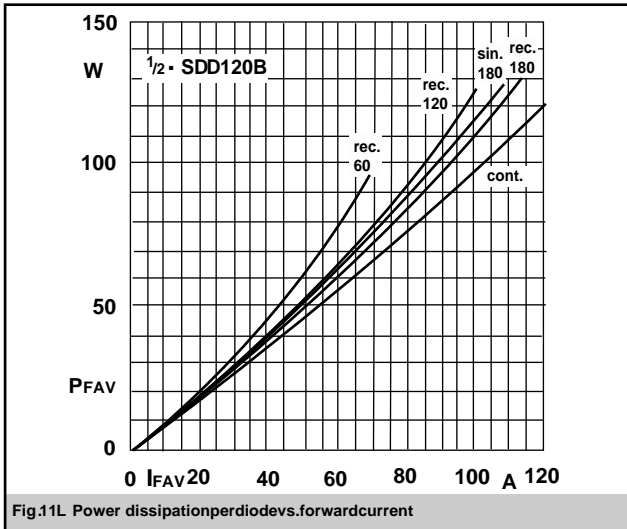
- \* Space and weight savings
- \* Simple mounting
- \* Improved temperature and power cycling
- \* Reduced protection circuits

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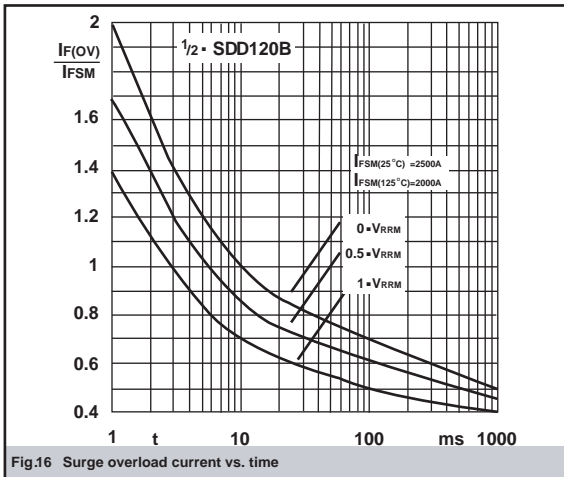
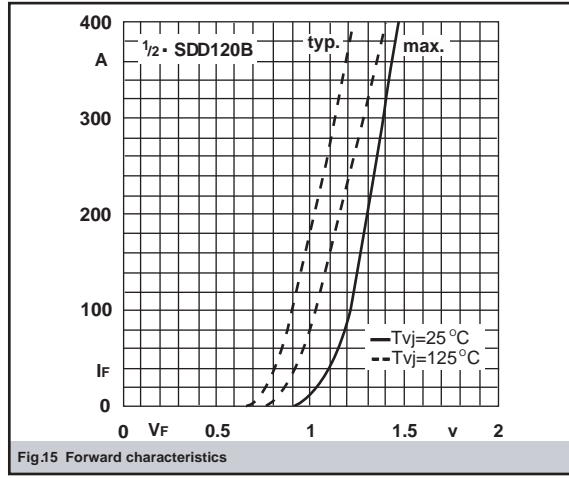
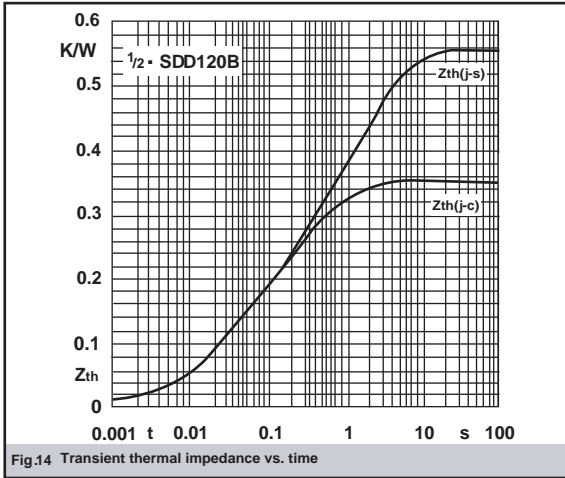
# SDD120NXXB

## Diode-Diode Modules



# SDD1&0NXXB

## Diode-Diode Modules



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