

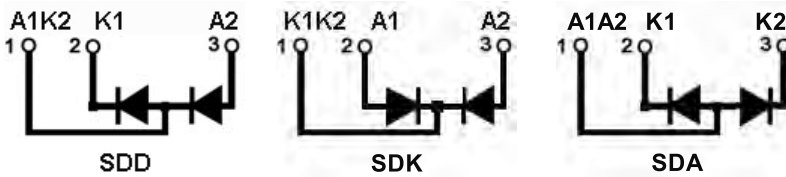
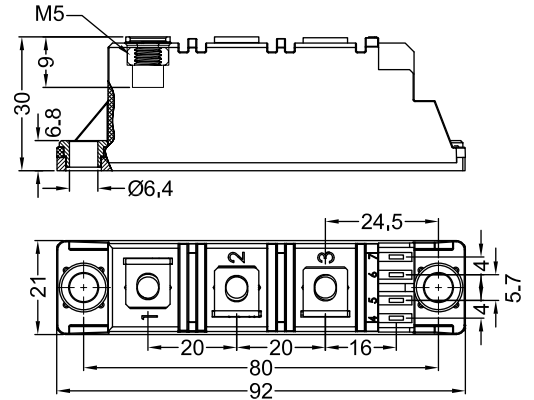
# SDD1&0NXXB

## 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

**Sirectifier**<sup>®</sup>

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Symbol	Test Conditions	Characteristic Values	Unit
$I_R$	$T_{VJ}=T_{VJM}; V_R=V_{RRM}$	15	mA
$V_F$	$I_F=360A; T_{VJ}=25^{\circ}C$	1.63	V
$V_{To}$	For power-loss calculations only	0.75	V
$r_T$	$T_{VJ}=T_{VJM}$	1.95	$\Omega$
$Q_s$	$T_{VJ}=125^{\circ}C; I_F=50A; -di/dt=3A/us$	170	$\mu C$
$I_{RM}$		45	A
$R_{thJC}$	per diode; DC current per module	0.30 0.145	K/W
$R_{thJK}$	per diode; DC current per module	0.50 0.245	K/W
$ds$	Creepage distance on surface	12.7	mm
$da$	Strike distance through air	9.6	mm
$a$	Maximum allowable acceleration	50	$m/s^2$

### 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

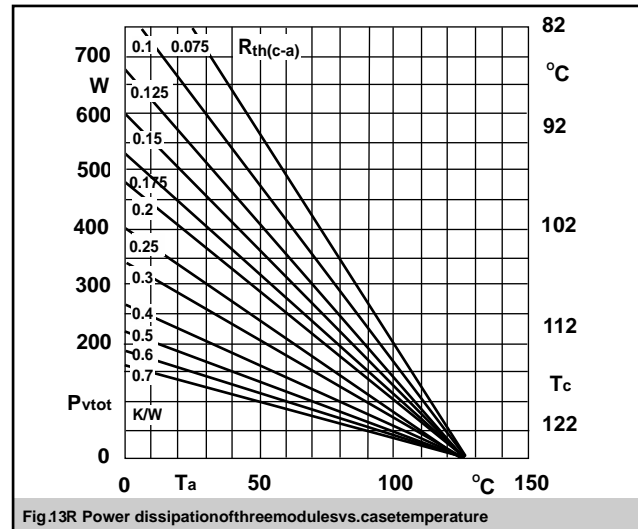
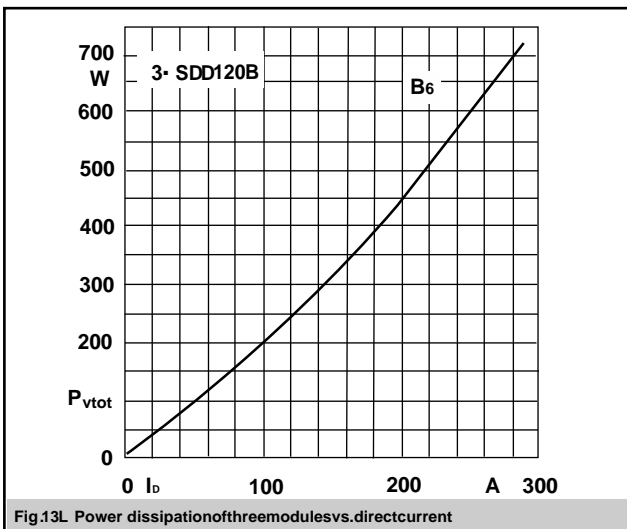
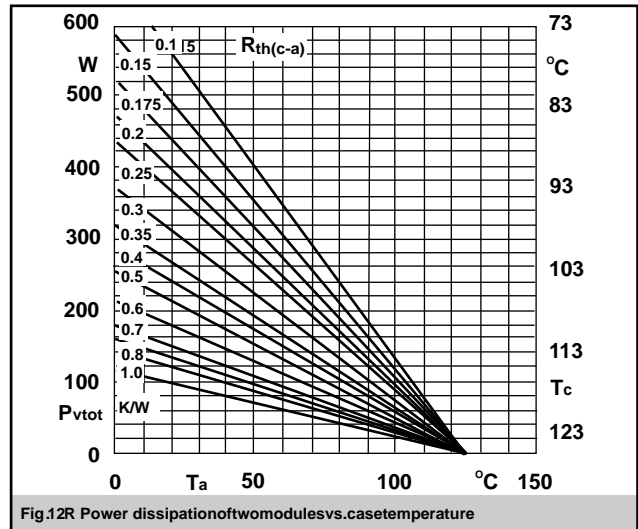
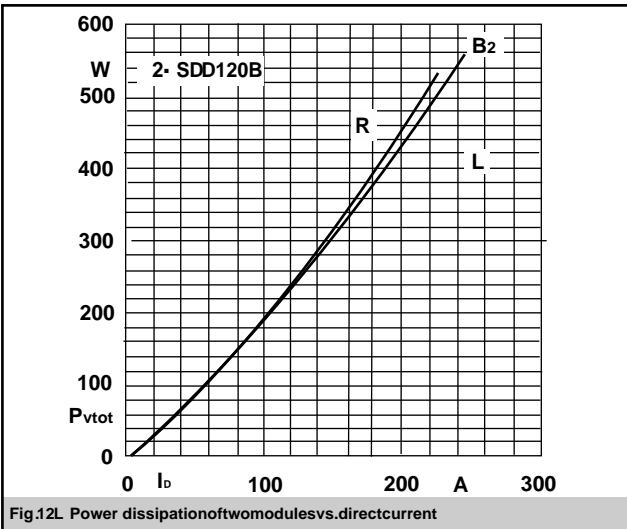
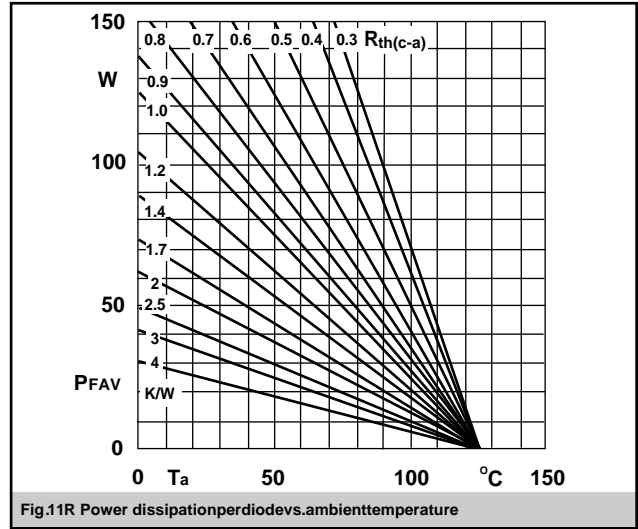
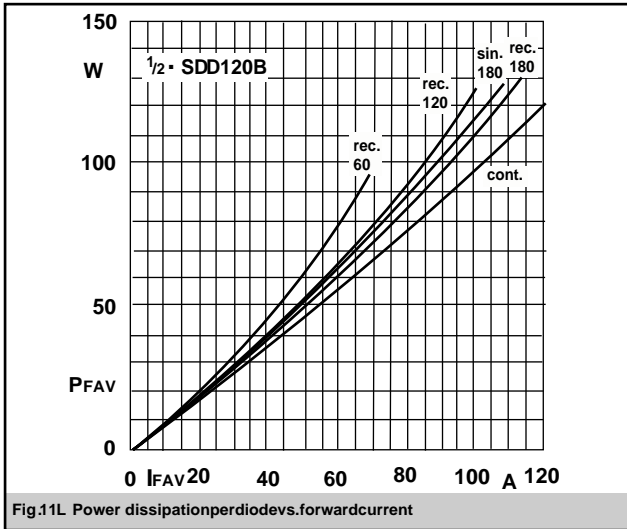
- \* Space and weight savings
- \* Simple mounting
- \* Improved temperature and power cycling
- \* Reduced protection circuits

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# SDD120NXXB

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