

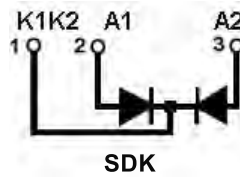
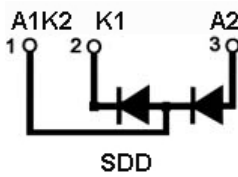
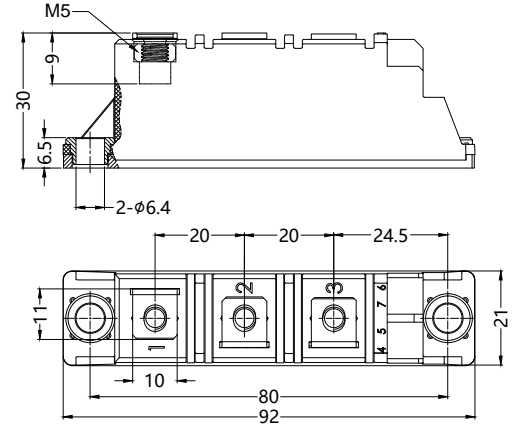
SDD120NXXB

Diode-Diode Modules



Type	V_{RSM} V	V_{RRM} V
SDD120N08B	900	800
SDD120N12B	1300	1200
SDD120N14B	1500	1400
SDD120N16B	1700	1600
SDD120N18B	1900	1800
SDD120N20B	2100	2000
SDD120N22B	2300	2200

Holerance: $\pm 0.5\text{mm}$
Dimensions in mm (1mm=0.0394")



Symbol	Test Conditions	Maximum Ratings	Unit
I_{FRMS} I_{FAVM}	$T_{VJ}=T_{VJM}$ $T_C=100^\circ\text{C}$; 180° sine	188 120	A
I_{FSM}	$T_{VJ}=45^\circ\text{C}$ $V_R=0$ $t=10\text{ms}$ (50Hz), sine $t=8.3\text{ms}$ (60Hz), sine	2800 3300	A
	$T_{VJ}=T_{VJM}$ $V_R=0$ $t=10\text{ms}$ (50Hz), sine $t=8.3\text{ms}$ (60Hz), sine	2500 2750	
$\int i^2 dt$	$T_{VJ}=45^\circ\text{C}$ $V_R=0$ $t=10\text{ms}$ (50Hz), sine $t=8.3\text{ms}$ (60Hz), sine	39200 45000	A^2s
	$T_{VJ}=T_{VJM}$ $V_R=0$ $t=10\text{ms}$ (50Hz), sine $t=8.3\text{ms}$ (60Hz), sine	31200 31300	
T_{VJ} T_{VJM} T_{stg}		-40...+150 150 -40...+125	$^\circ\text{C}$
V_{ISOL}	50/60Hz, RMS $I_{ISOL} \leq 1\text{mA}$ $t=1\text{min}$ $t=1\text{s}$	3000 3600	V~
M_d	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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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°C	1.63	V
V_{TO}	For power-loss calculations only	0.75	V
r_T	T _{VJ} =T _{VJM}	1.95	mΩ
Q_S	T _{VJ} =125°C; I _F =50A; -di/dt=3A/us	170	uC
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
d_S	Creepage distance on surface	12.7	mm
d_A	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

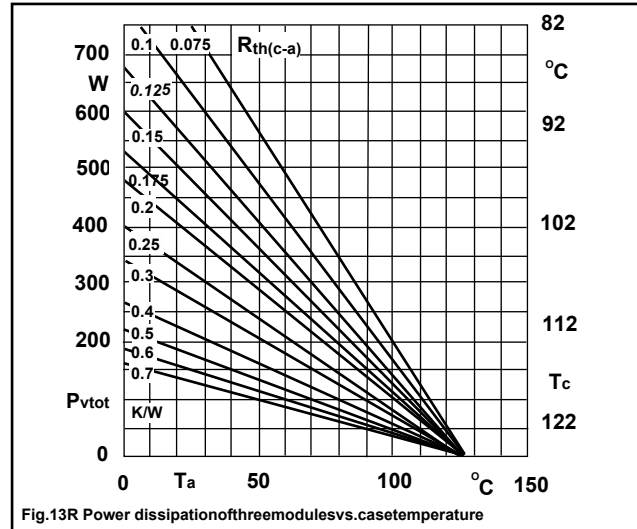
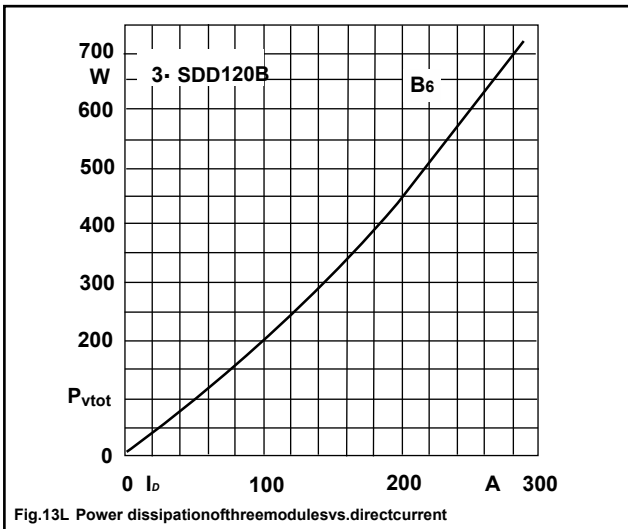
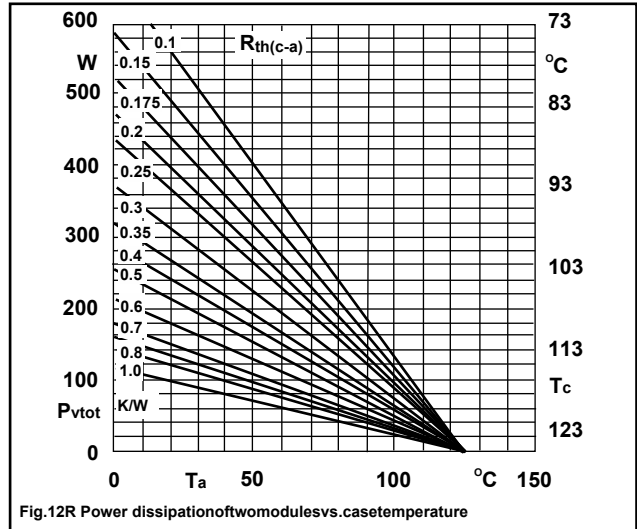
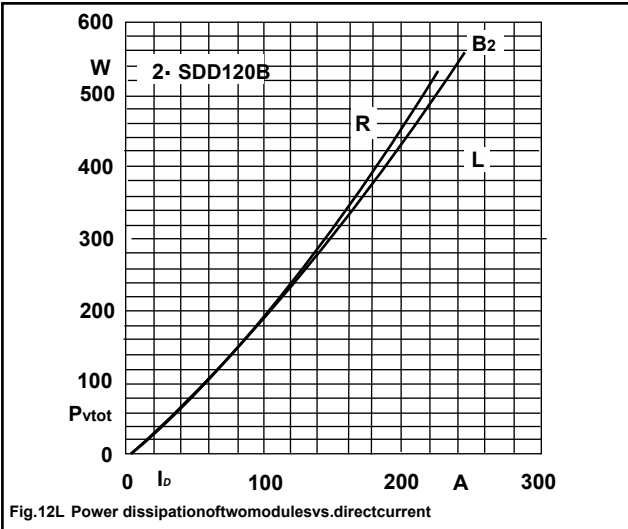
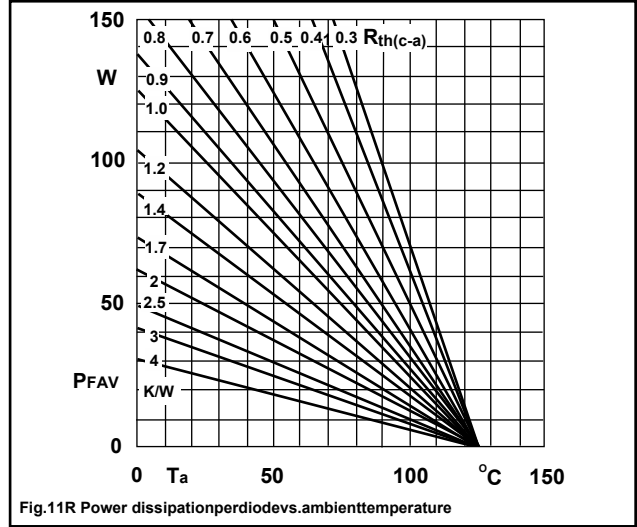
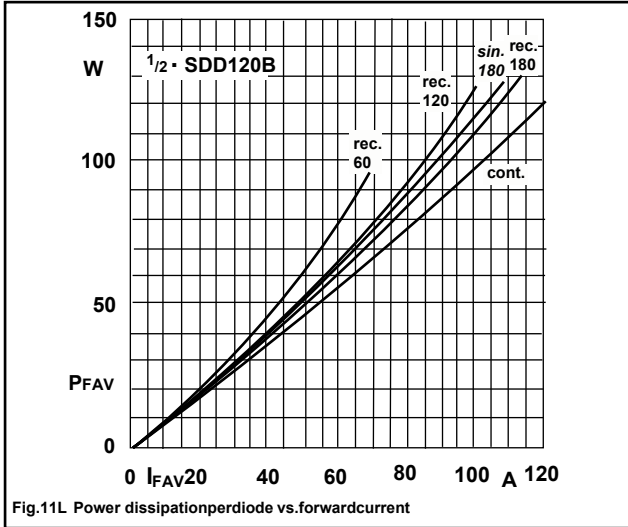
ADVANTAGES

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



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