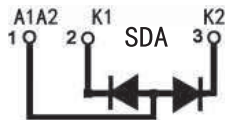
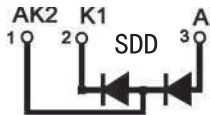


# SDD/SDA/SDK100NXXB

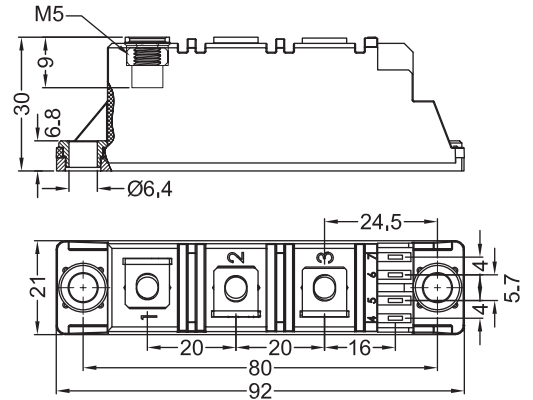
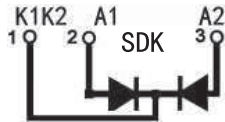
## Diode-Diode Modules

□olerance:±0.5mm

Dimensions in mm (1mm=0.0394")



Type	V <sub>RSM</sub> V	V <sub>RRM</sub> V
SDD100N08B	900	800
SDD100N12B	1300	1200
SDD100N14B	1500	1400
SDD100N16B	1700	1600
SDD100N18B	1900	1800



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	180 100	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	1700 1950	A
	T <sub>VJ</sub> =T <sub>VJM</sub> V <sub>R</sub> =0 t=10ms(50Hz), sine t=8.3ms(60Hz), sine	1540 1800	
∫ <sub>i</sub> <sup>2</sup> dt	T <sub>VJ</sub> =45°C V <sub>R</sub> =0 t=10ms (50Hz), sine t=8.3ms (60Hz), sine	14450 15700	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	11850 13400	
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

# SDD/SDA/SDK100NXXB

## Diode-Diode Modules

Symbol	Test Conditions	Characteristic Values	Unit
$I_R$	$T_{VJ}=T_{VJM}; V_R=V_{RRM}$	15	mA
$V_F$	$I_F=300A; T_{VJ}=25^{\circ}C$	1.5	V
$V_{TO}$	For power-loss calculations only	0.8	V
$r_T$	$T_{VJ}=T_{VJM}$	2.3	m $\Omega$
$Q_S$	$T_{VJ}=125^{\circ}C; I_F=50A; -di/dt=3A/us$	170	$\mu C$
$I_{RM}$		45	A
$R_{thJC}$	per diode; DC current per module	0.35 0.175	K/W
$R_{thJK}$	per diode; DC current per module	0.55 0.275	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 <sup>2</sup>

### FEATURES

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

### APPLICATIONS

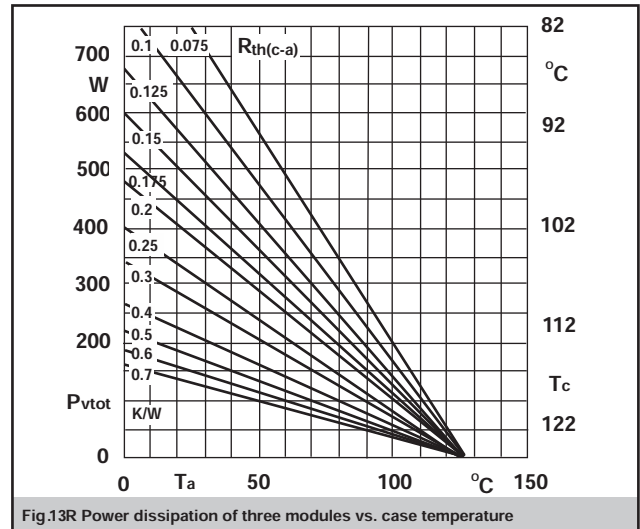
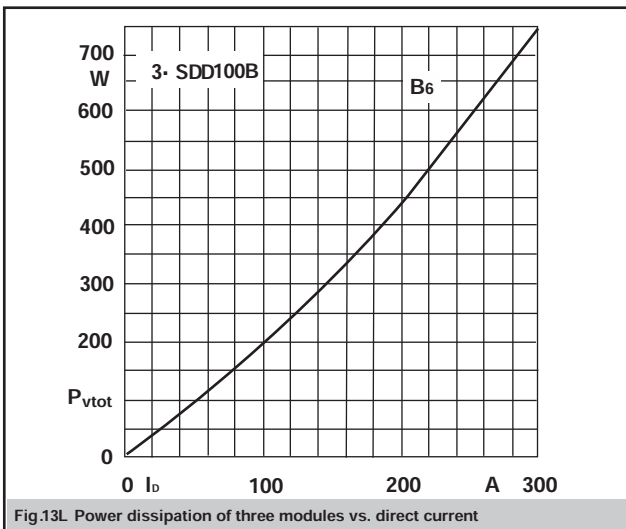
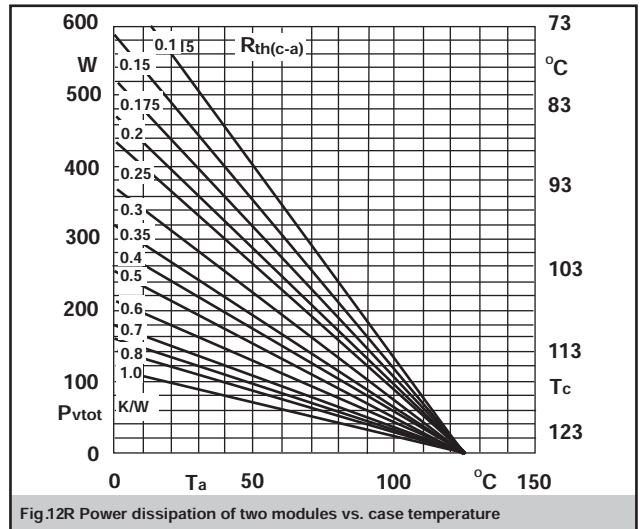
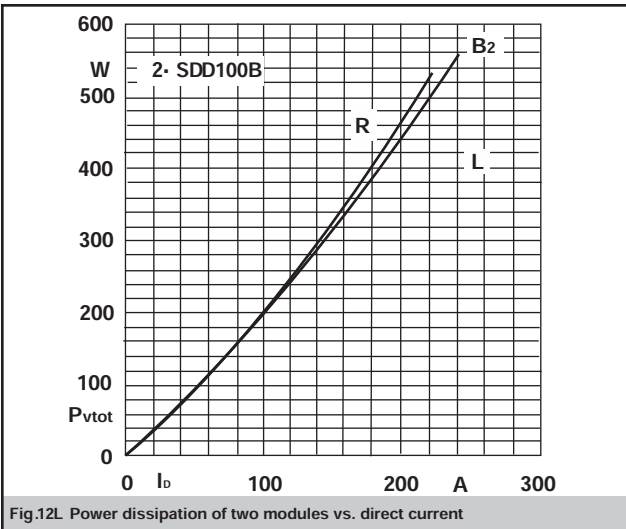
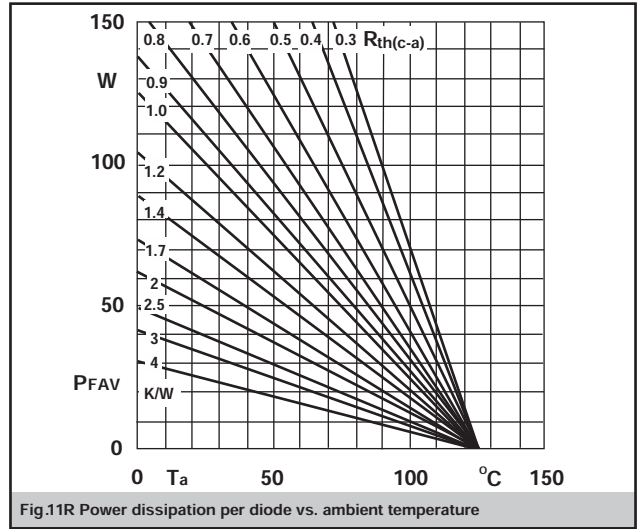
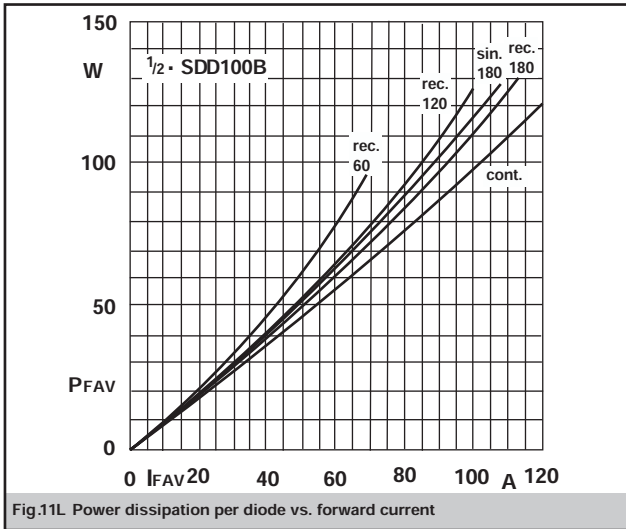
- \* Supplies for DC power equipment
- \* DC supply for PWM inverter
- \* Field supply for DC motors
- \* Battery DC power supplies

### ADVANTAGES

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

# SDD/SDA/SDK100NXXB

## Diode-Diode Modules



# SDD/SDA/SDK100NXXB

## Diode-Diode Modules

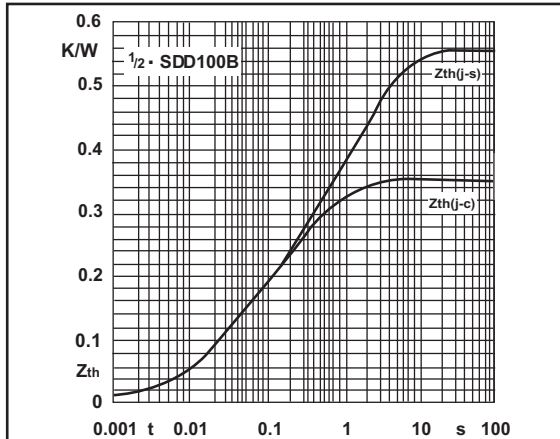


Fig.14 Transient thermal impedance vs. time

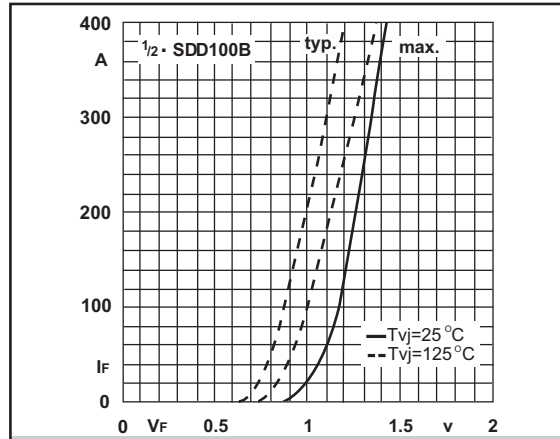


Fig.15 Forward characteristics

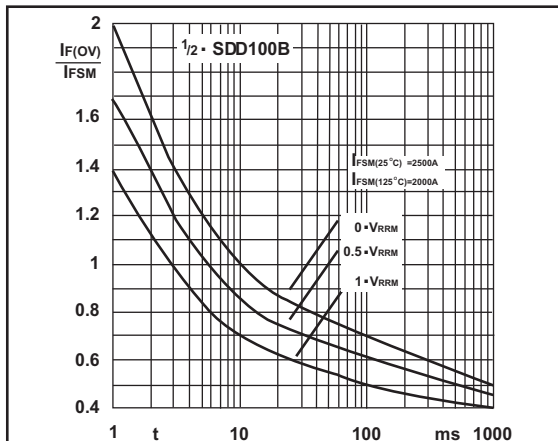


Fig.16 Surge overload current vs. time

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