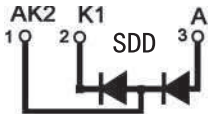
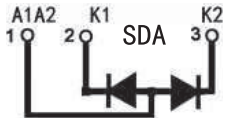
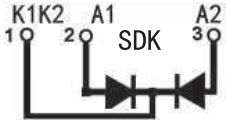
SDD/SDA/SDK100NxxB

Diode-Diode Modules

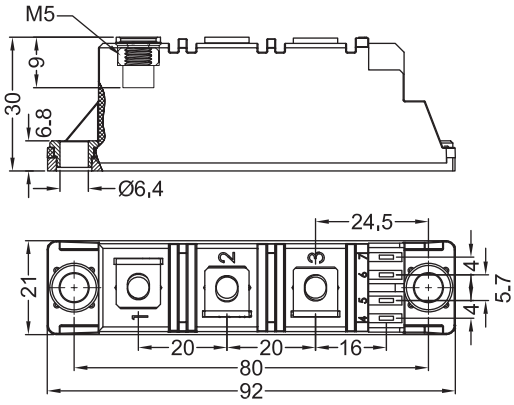






Type	V_{RSM} V	V_{RRM} V
SDD100N08B	900	800
SDD100N12B	1300	1200
SDD100N14B	1500	1400
SDD100N16B	1700	1600
SDD100N18B	1900	1800

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



Symbol	Test Conditions		Maximum Ratings	Unit
I_{FRMS} I_{FAVM}	$T_{VJ}=T_{VJM}$ $T_C=100^oC$; 180° sine		180 100	A
I_{FSM}	$T_{VJ}=45^oC$ $V_R=0$	t=10ms (50Hz), sine t=8.3ms (60Hz), sine	1700 1950	A
	$T_{VJ}=T_{VJM}$ $V_R=0$	t=10ms(50Hz), sine t=8.3ms(60Hz), sine	1540 1800	
$\int i^2dt$	$T_{VJ}=45^oC$ $V_R=0$	t=10ms (50Hz), sine t=8.3ms (60Hz), sine	14450 15700	A^2s
	$T_{VJ}=T_{VJM}$ $V_R=0$	t=10ms(50Hz), sine t=8.3ms(60Hz), sine	11850 13400	
T_{VJ} T_{VJM} T_{stg}			-40...+150 150 -40...+125	°C
V_{ISOL}	50/60Hz, RMS $I_{ISOL}\leq 1mA$	t=1min t=1s	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

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°C	1.5	V
V_{TO}	For power-loss calculations only	0.8	V
r_T	$T_{VJ}=T_{VJM}$	2.3	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	0.35 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^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

SDD/SDA/SDK100NxxB

Diode-Diode Modules

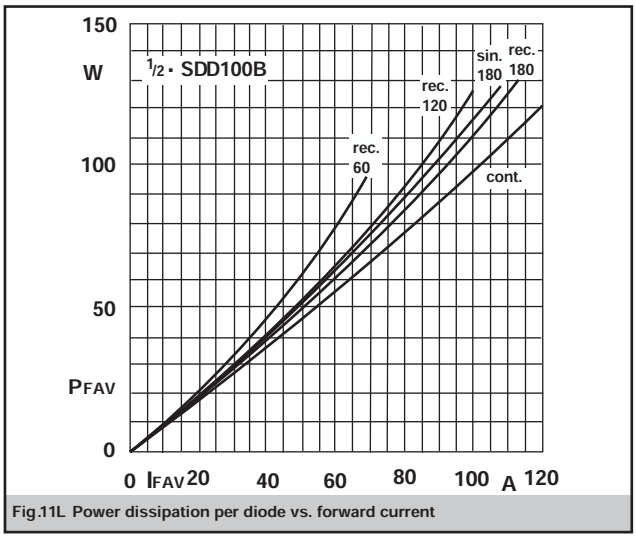


Fig.11L Power dissipation per diode vs. forward current

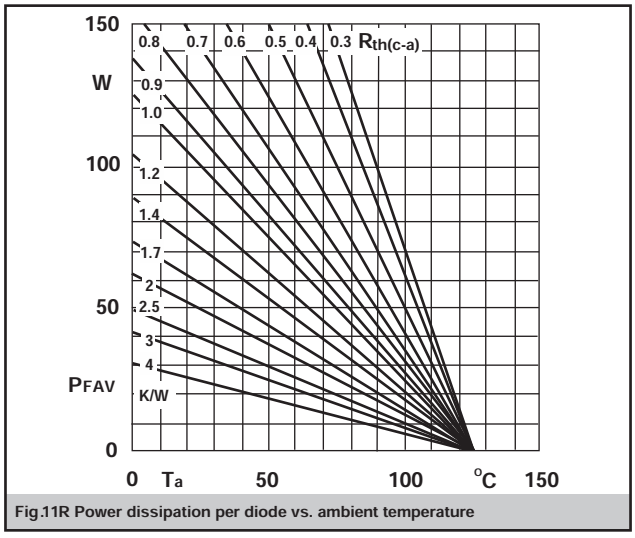


Fig.11R Power dissipation per diode vs. ambient temperature

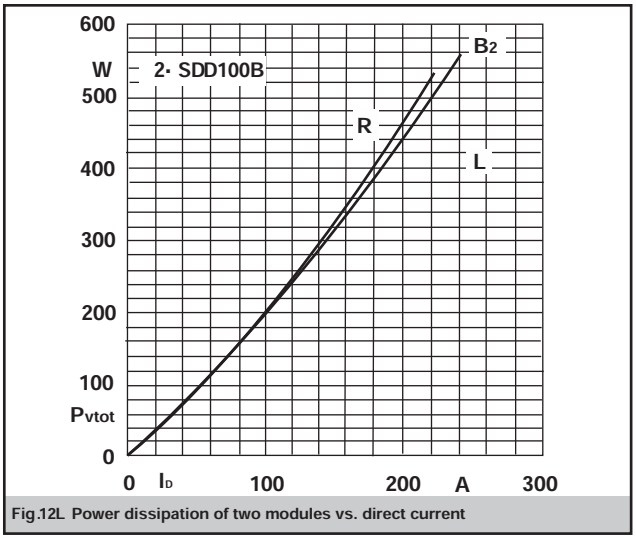


Fig.12L Power dissipation of two modules vs. direct current

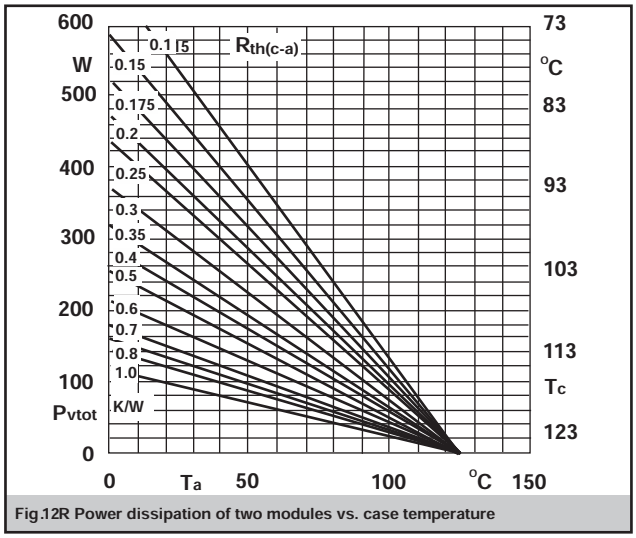


Fig.12R Power dissipation of two modules vs. case temperature

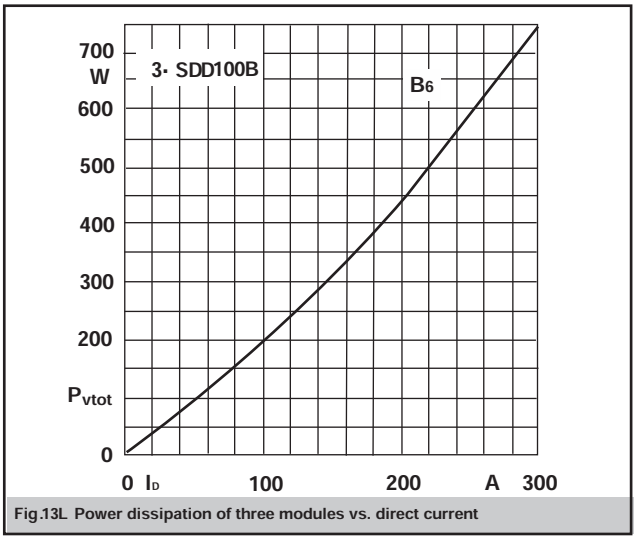


Fig.13L Power dissipation of three modules vs. direct current

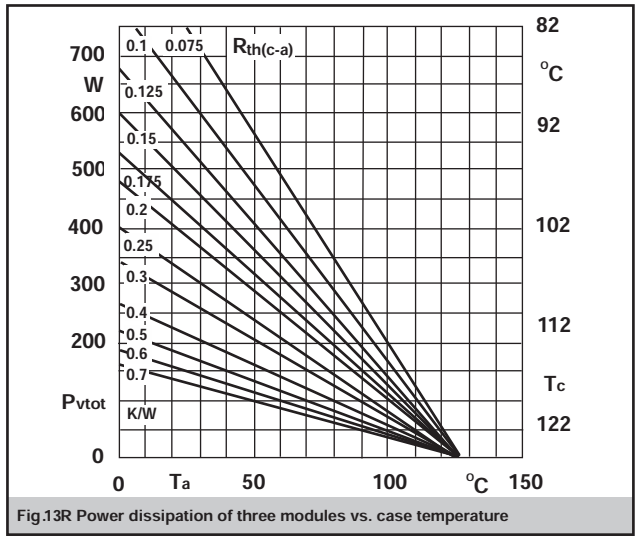


Fig.13R Power dissipation of three modules vs. case temperature

SDD/SDA/SDK100NxxB

Diode-Diode Modules

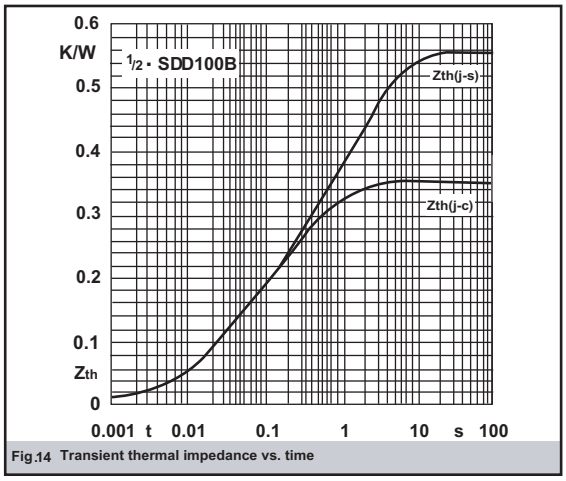


Fig.14 Transient thermal impedance vs. time

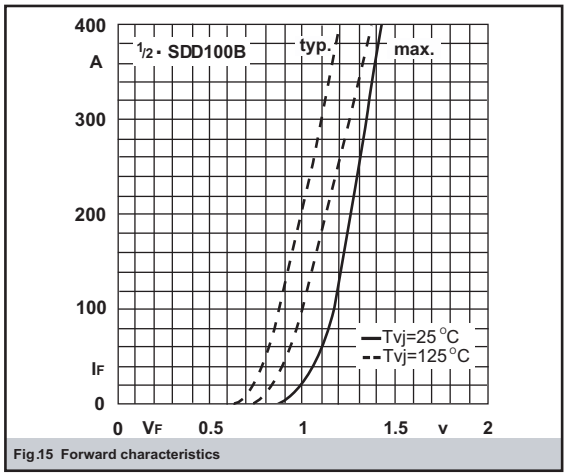


Fig.15 Forward characteristics

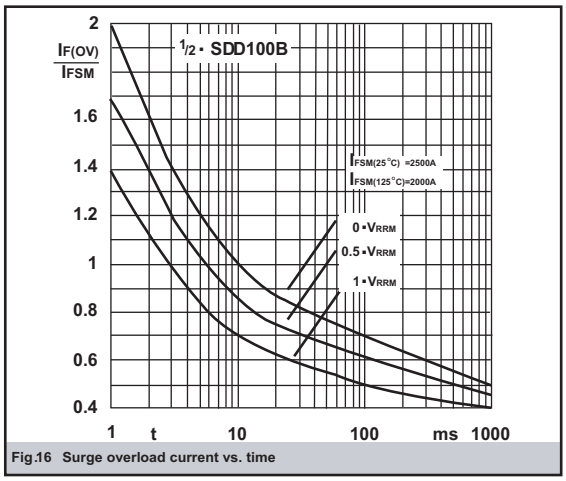


Fig.16 Surge overload current vs. time

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