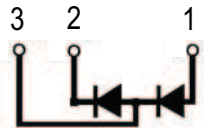
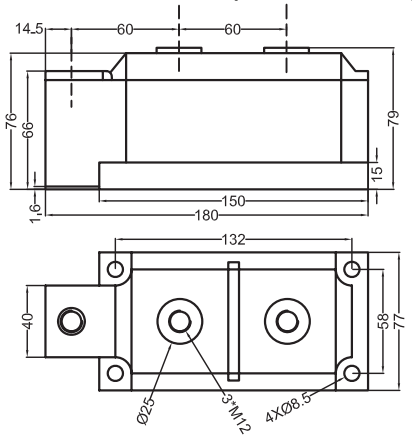
SDD800NxxPT

Diode-Diode Modules



Type	V_{RSM} V	V_{RRM} V
SDD800N08PT	900	800
SDD800N12PT	1300	1200
SDD800N14PT	1500	1400
SDD800N16PT	1700	1600
SDD800N18PT	1900	1800

Colerance:±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		1256 800	A
I_{FSM}	$T_{VJ}=45^oC$ $V_R=0$	t=10ms (50Hz), sine t=8.3ms (60Hz), sine	35000 32100	A
	$T_{VJ}=T_{VJM}$ $V_R=0$	t=10ms(50Hz), sine t=8.3ms(60Hz), sine	29200 27000	
$\int i^2dt$	$T_{VJ}=45^oC$ $V_R=0$	t=10ms (50Hz), sine t=8.3ms (60Hz), sine	6805000 6683000	A^2s
	$T_{VJ}=T_{VJM}$ $V_R=0$	t=10ms(50Hz), sine t=8.3ms(60Hz), sine	6319000 6230000	
T_{VJ} T_{VJM} T_{stg}			-40...+150 150 -40...+125	^oC
V_{ISOL}	50/60Hz, RMS $I_{ISOL}\leq 1mA$	t=1min t=1s	3000 3600	V~
M_d	Mounting torque (M6) Terminal connection torque (M12)		4.5-7/40-60 11-13/97-115	Nm/lb.in.
Weight	Typ.		3342	g

SDD800NxxPT

Diode-Diode Modules

Symbol	Test Conditions	Characteristic Values	Unit
I_{RRM}	$T_{VJ}=T_{VJM}$; $V_R=V_{RRM}$	50	mA
V_F	I_F=2400A; T_{VJ}=25°C	1.45	V
V_{TO}	For power-loss calculations only	0.75	V
r_T	$T_{VJ}=T_{VJM}$	0.25	mΩ
R_{thJC}	per junction; DC current	0.045	K/W
R_{thJK}	per junction; DC current	0.05	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~
* 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

SDD800NxxPT

Diode-Diode Modules

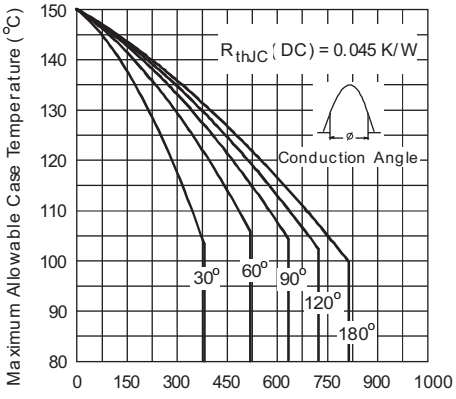


Fig.1 Average Forward Current (A)

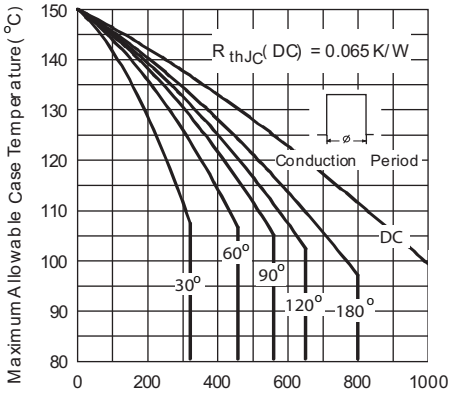


Fig.2 Average Forward Current (A)

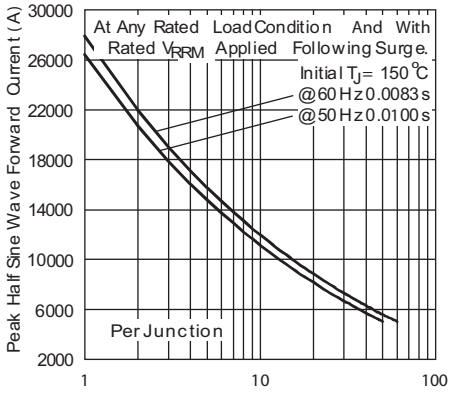


Fig.3 Number Of Equal Amplitude Half Cycle Current Pulses (N)

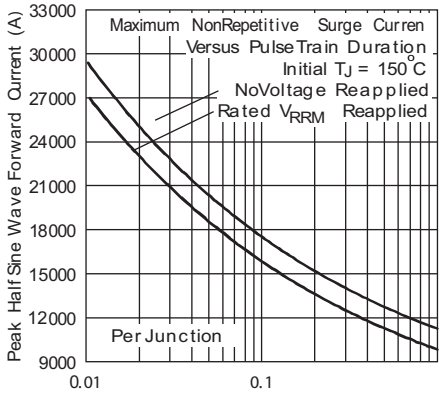


Fig.4 Pulse Train Duration (s)

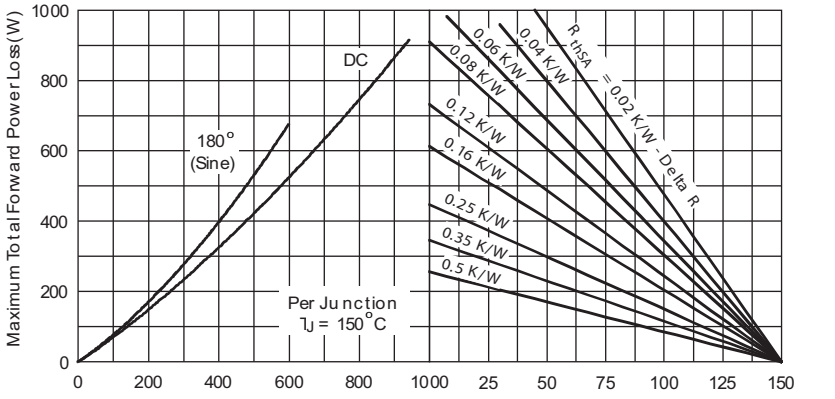


Fig.5 Total RMS Output Current (A)

Maximum Allowable Ambient Temperature (°C)

SDD800NxxPT

Diode-Diode Modules

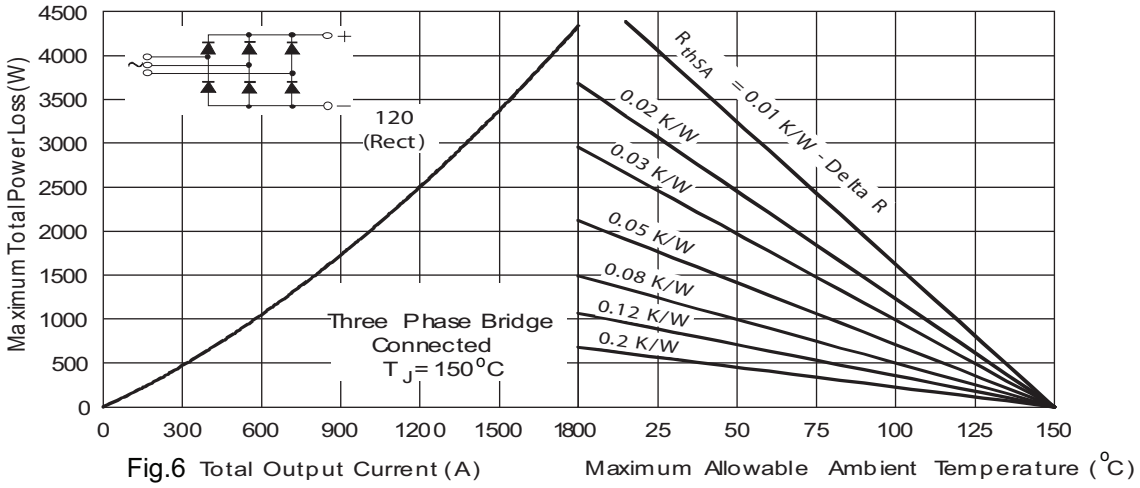


Fig.6

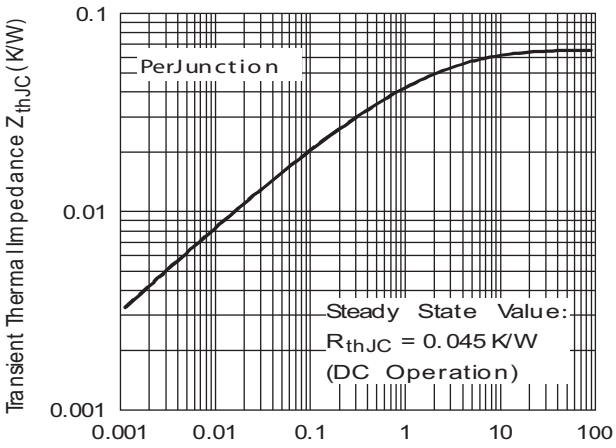


Fig.7