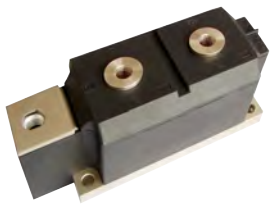
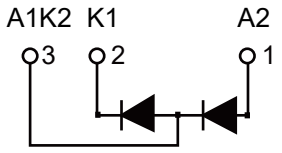
SDD800N26PT

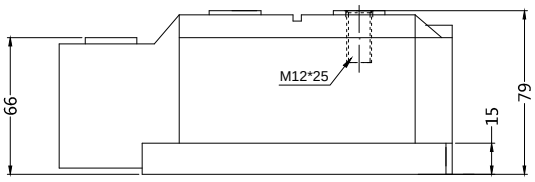
Diode-Diode Modules

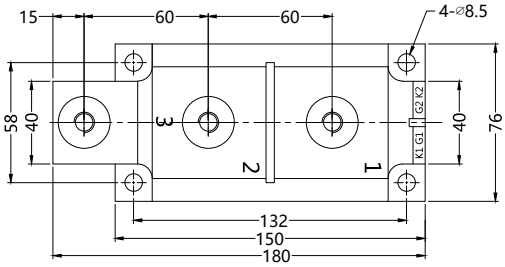




Type	V_{RSM} V_{DSM} V	V_{RRM} V_{DRM} V
SDD800N08PT	900	800
SDD800N12PT	1300	1200
SDD800N14PT	1500	1400
SDD800N16PT	1700	1600
SDD800N18PT	1900	1800
SDD800N20PT	2100	2000
SDD800N22PT	2300	2200
SDD800N24PT	2500	2400
SDD800N26PT	2700	2600

Tolerance:±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	21 24	KA
	$T_{VJ}=T_{VJM}$ $V_R=0$	t=10ms(50Hz), sine t=8.3ms(60Hz), sine	17 19	
$\int i^2dt$	$T_{VJ}=45^oC$ $V_R=0$	t=10ms (50Hz), sine t=8.3ms (60Hz), sine	2100000 2310000	A^2s
	$T_{VJ}=T_{VJM}$ $V_R=0$	t=10ms(50Hz), sine t=8.3ms(60Hz), sine	1740000 1920000	
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 (M8) Terminal connection torque (M12)		4.25-5.75/38-51 10.2-13.8/90-122	Nm/lb.in.
Weight	Typ.		3250	g

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SDD800N26PT

Diode-Diode Modules

Symbol	Test Conditions	Characteristic Values	Unit
I_R	$T_{VJ}=T_{VJM}$; $V_R=V_{RRM}$	50	mA
V_F	I_F=2400A; T_{VJ}=25°C	1.28	V
V_{FO}	For power-loss calculations only	0.8	V
r_F	$T_{VJ}=T_{VJM}$	0.2	mΩ
Q_S	T_{VJ}=125°C; I_F=300A; -di/dt=50A/us	1850	uC
I_{RM}		165	A
R_{thJC}	per diode; DC current per module	0.0405 0.02025	K/W
R_{thJK}	per diode; DC current per module	0.010 0.005	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
* Pressure Contact Technology
* 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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SDD800N26PT

Diode-Diode Modules

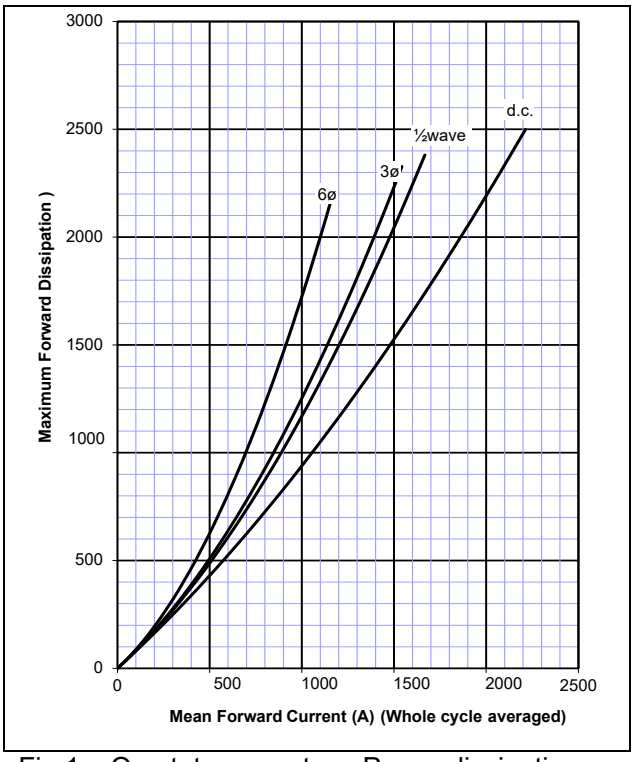

Fig.1 – On-state current vs. Power dissipation – Sine wave

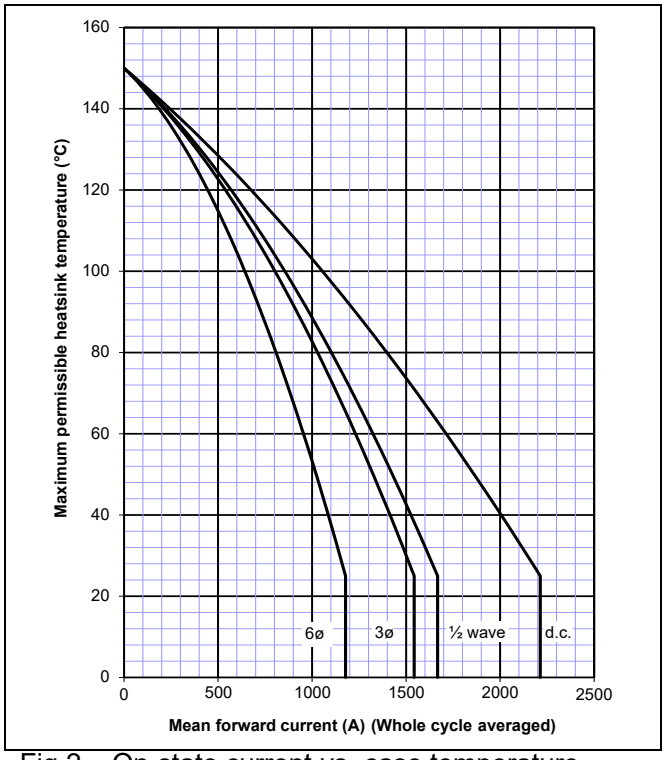

Fig.2 – On-state current vs. case temperature –Sine wave

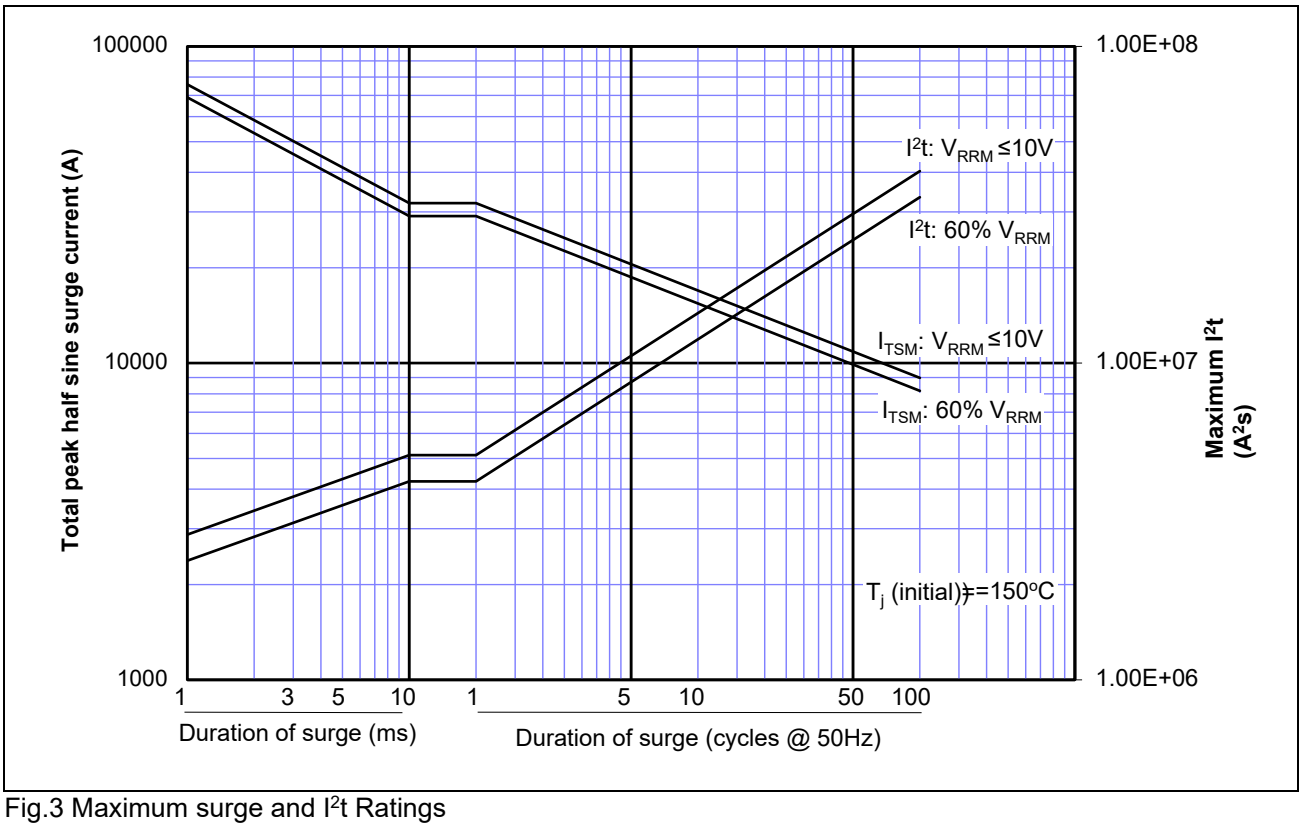

Fig.3 Maximum surge and I^2t Ratings

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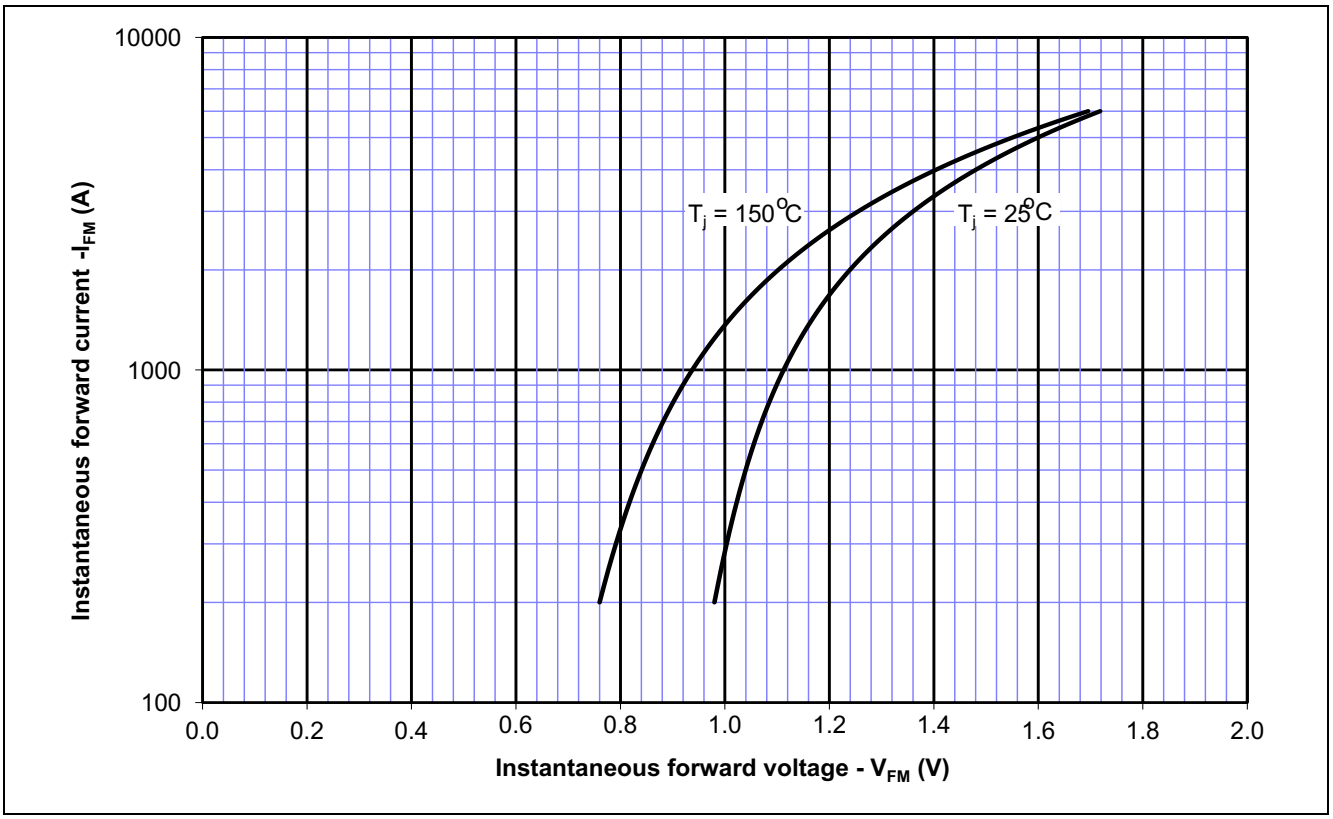

Fig.4 Forward characteristics of Limit device

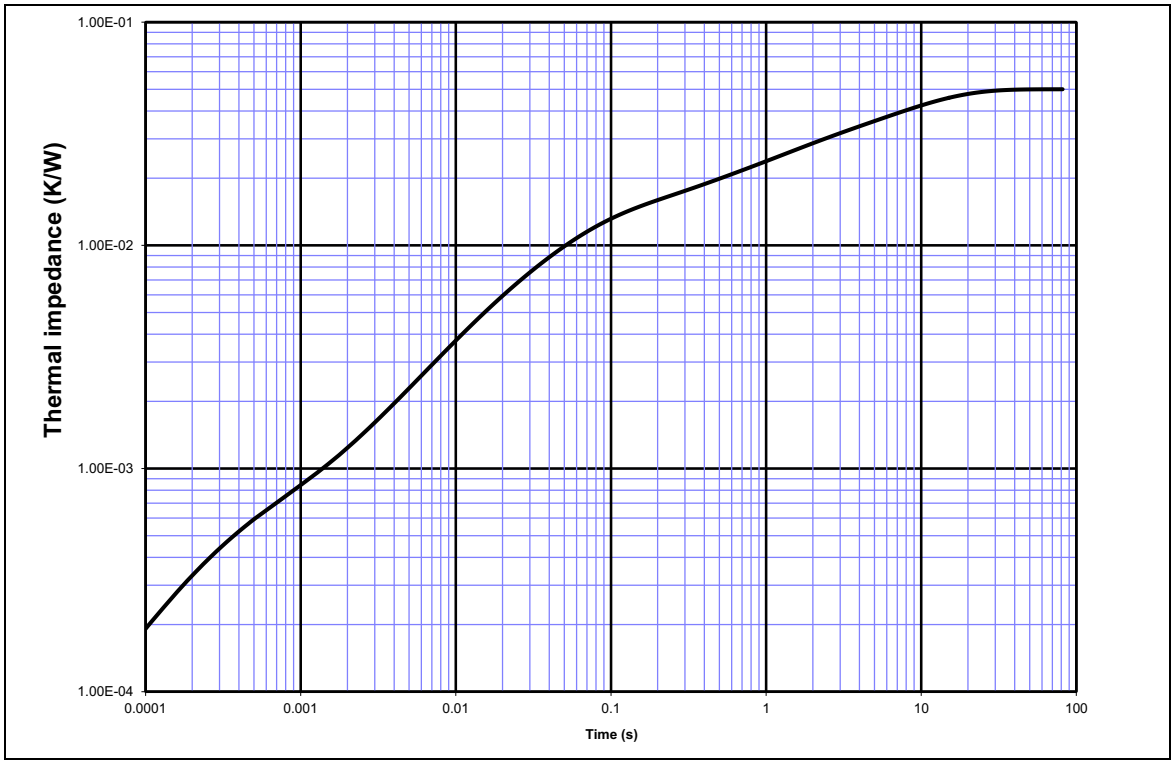

Fig.5Transient thermal impedance

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