MD380 Diode Modules

Features：

- Isolated mounting base 2500V~
- Pressure contact technology with Increased power cycling capability
- Space and weight saving

Typical Applications

- Various rectifiers
- DC supply for PWM inverter

V_{RSM}	V_{RRM}	Type & Outline
900V	800V	MDx380-08
1100V	1000V	MDx380-10
1300V	1200V	MDx380-12
1500V	1400V	MDx380-14
1700V	1600V	MDx380-16
1900V	1800V	MDx380-18

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(°C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, T_C=100°C	150			380	A
$I_{F(RMS)}$	RMS forward current		150			596	A
I_{RRM}	Repetitive peak current	at V_{RRM}	150			20	mA
I_{FSM}	Surge forward current	10ms half sine wave V_R=0.6V_{RRM}	150			9.8	KA
I^2t	I^2T for fusing coordination					451	A^2s*10^3
V_{FO}	Threshold voltage		150			0.72	V
r_F	Forward slop resistance					0.40	mΩ
V_{FM}	Peak forward voltage	I_{FM}=1100A	25			1.45	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180^0 sine· Single side cooled per chip				0.120	°C /W
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180^0 sine· Single side cooled per chip				0.04	°C /W
V_{iso}	Isolation voltage	50Hz,R.M.S,t=1min,I_{iso}:1mA(max)		2500			V
F_m	Terminal connection torque(M8)				12.0		N·m
	Mounting torque(M6)				6.0		N·m
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight				550		g
Outline	M03Y						

Peak forward Voltage Vs.Peak forward Current

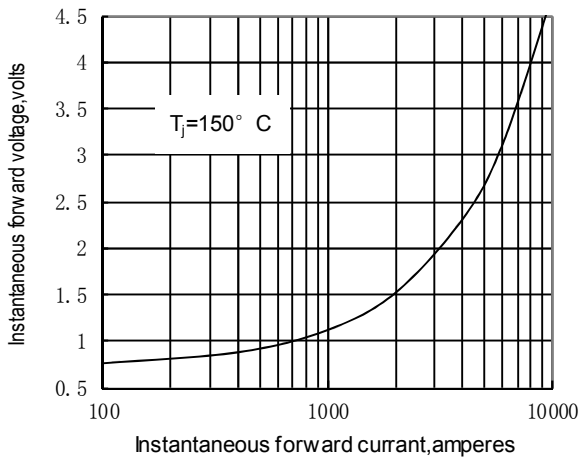

Fig.1

Max. junction To case Thermai Impedance Vs.Time

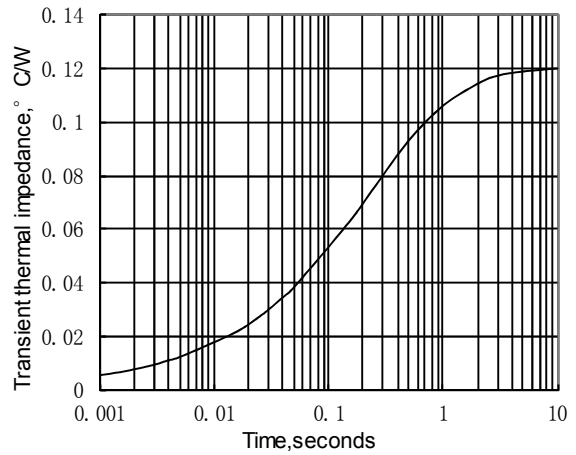Fig.2

Max. Power Dissipation Vs.Mean forward Current
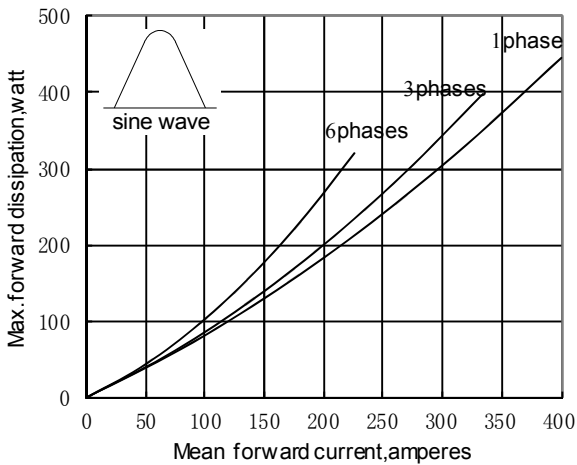

Fig.3
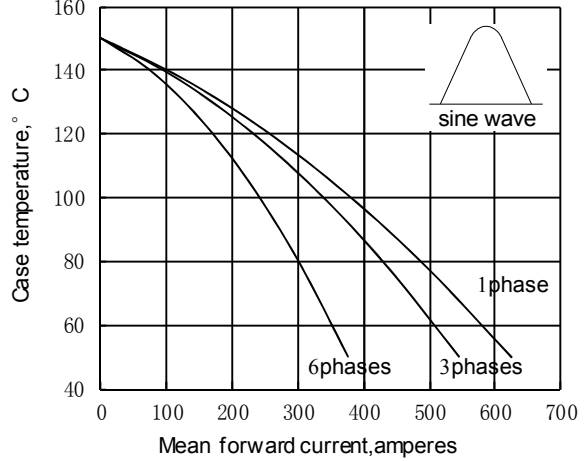
Max. case Temperature Vs.Mean forward Current
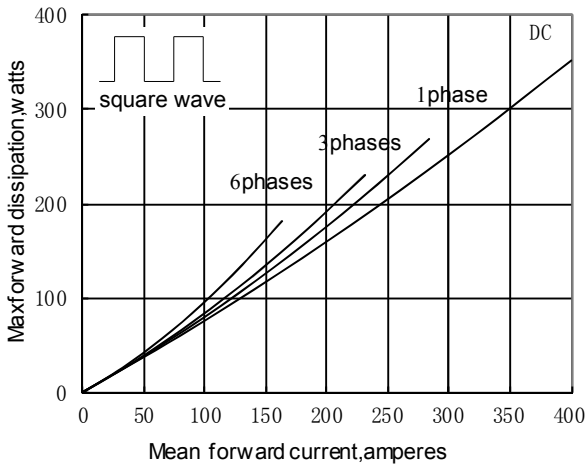

Fig.4

Max. Power Dissipation Vs.Mean forward Current
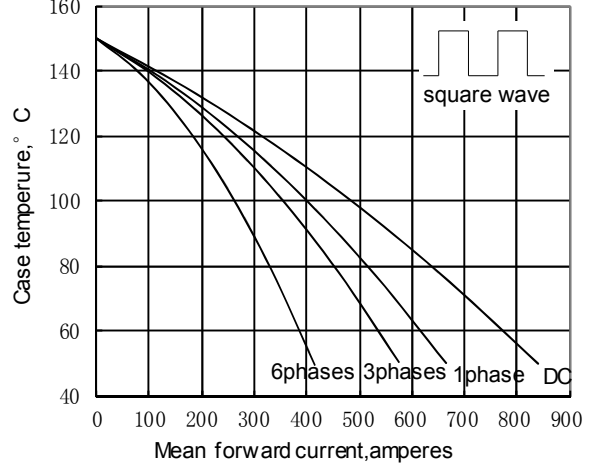

Fig.5

Max. case Temperature Vs.Mean forward Current

Fig.6

Surge Current Vs.Cycles
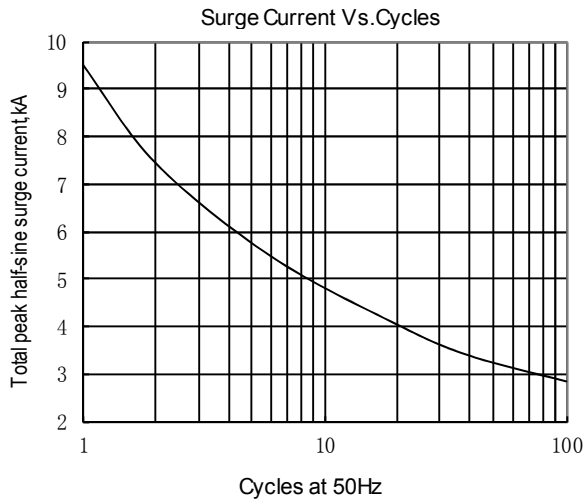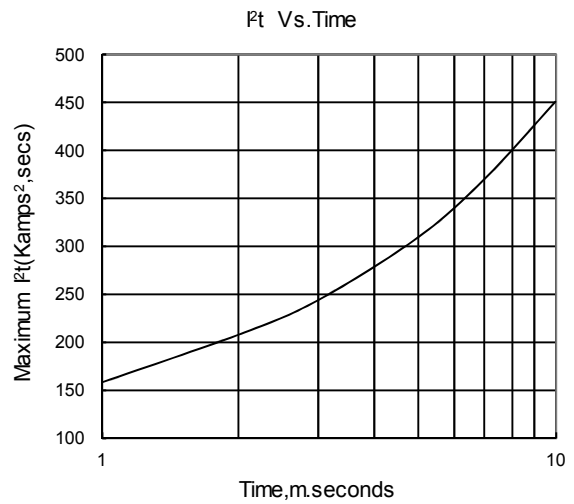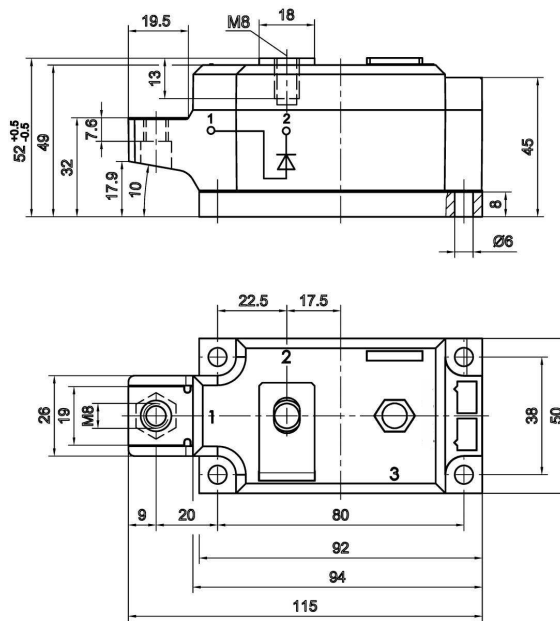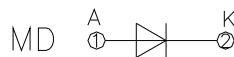
Fig.7

I²t Vs.Time

Fig.8

Outline:

M03Y

MD

A ──▷|── K

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