**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	MDx1000-08-411F3
1100V	1000V	MDx1000-10-411F3
1300V	1200V	MDx1000-12-411F3
1500V	1400V	MDx1000-14-411F3
1700V	1600V	MDx1000-16-411F3
1900V	1800V	MDx1000-18-411F3

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}\text{C})$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_c=60^{\circ}\text{C}$	150			1000	A
$I_{F(RMS)}$	RMS forward current		150			1570	A
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			40	mA
$I_{FSM}$	Surge forward current	10ms half sine wave $V_R=0.6V_{RRM}$	150			24	kA
$I^2t$	$I^2t$ for fusing coordination					2880	$\text{A}^2\text{s}\cdot 10^3$
$V_{FO}$	Threshold voltage		150			0.75	V
$r_F$	Forward slope resistance					0.25	m $\Omega$
$V_{FM}$	Peak forward voltage	$I_{FM}=3000\text{A}$	25			1.82	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine Single side cooled per chip				0.065	$^{\circ}\text{C}/\text{W}$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine Single side cooled per chip				0.018	$^{\circ}\text{C}/\text{W}$
$V_{iso}$	Isolation voltage	50Hz,R.M.S,t=1min, $I_{iso}:1\text{mA}(\text{max})$		2500			V
$F_m$	Terminal connection torque(M12)				14.0		N·m
	Mounting torque(M8)				12.0		N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}\text{C}$
$W_t$	Weight				3460		g
Outline	411F3						

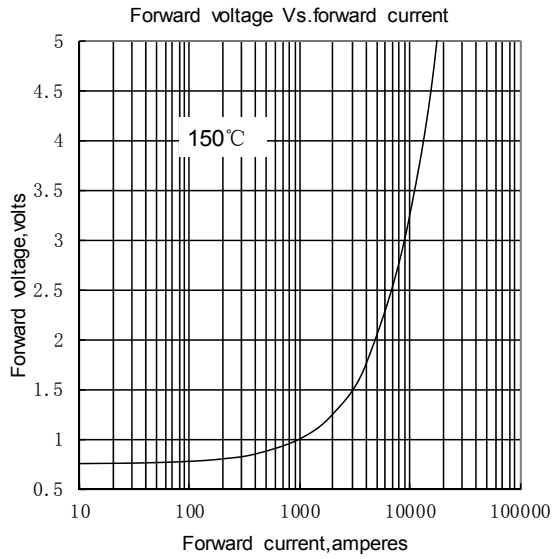


Fig.1

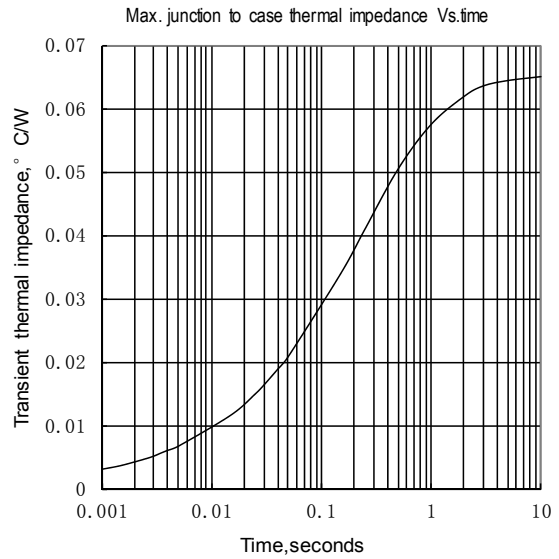


Fig.2

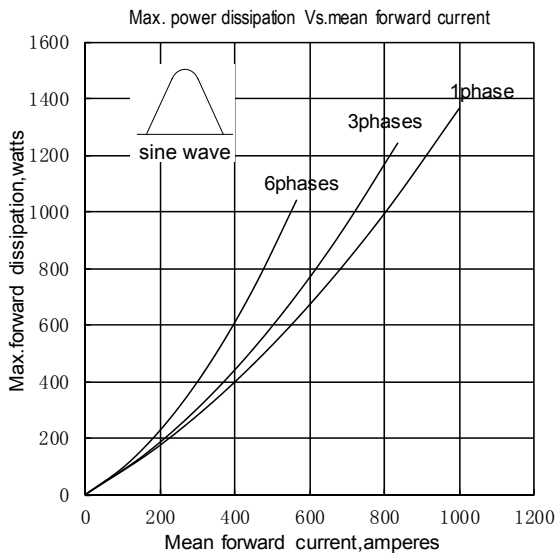


Fig.3

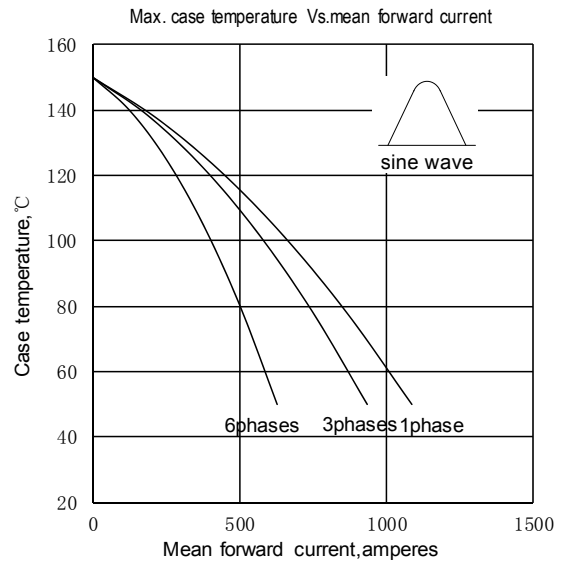


Fig.4

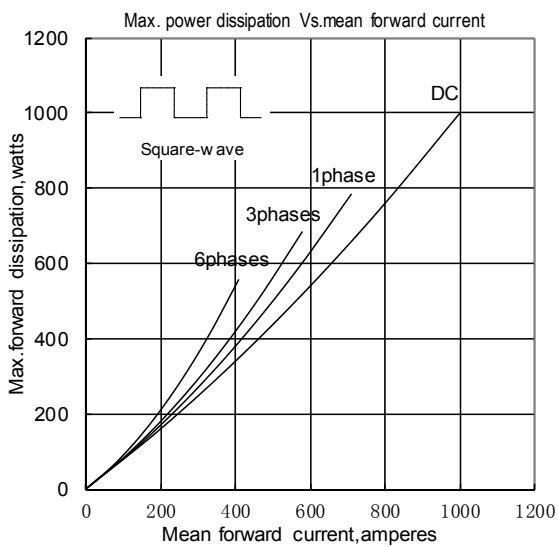


Fig.5

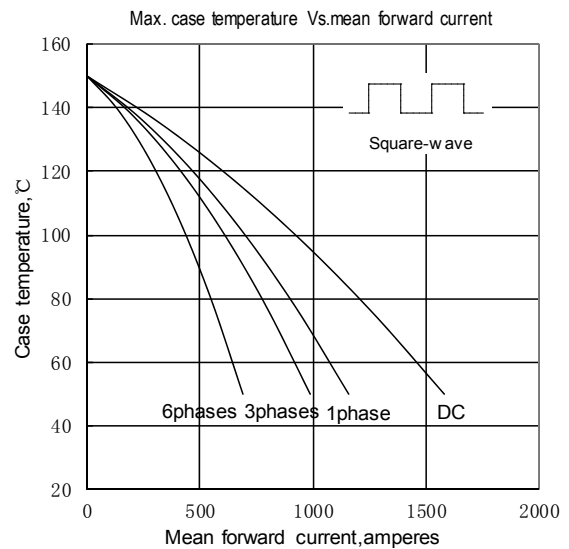


Fig.6

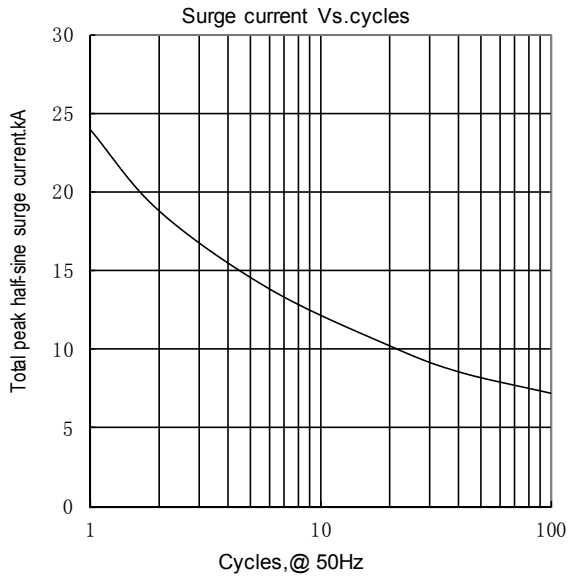


Fig.7

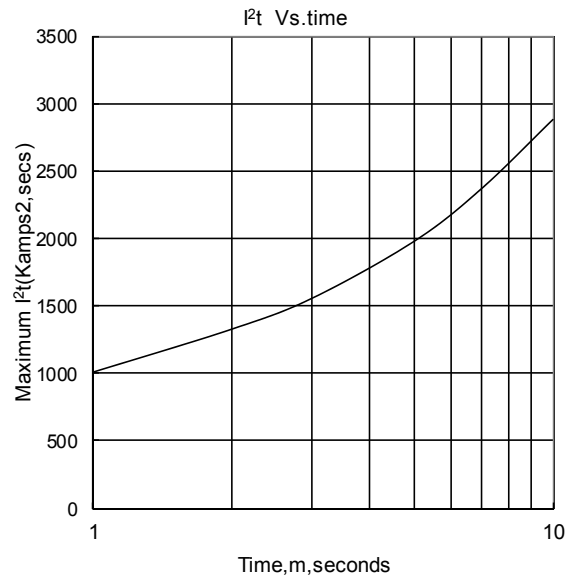
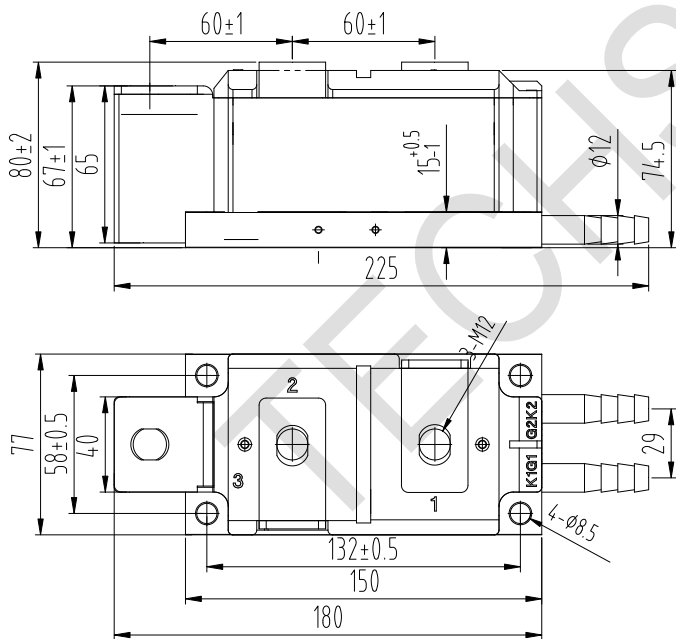
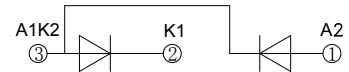


Fig.8

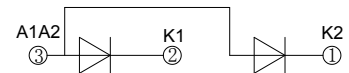
Outline:



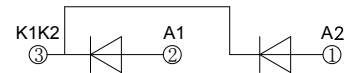
MDC



MDA



MDK



MD

