**Features:**

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

**Typical Applications**

- Various rectifiers
- DC supply for PWM inverter

$V_{RSM}$	$V_{RRM}$	Type & Outline
900V	800V	MDx500-08-406F3
1100V	1000V	MDx500-10-406F3
1300V	1200V	MDx500-12-406F3
1500V	1400V	MDx500-14-406F3
1700V	1600V	MDx500-16-406F3
1900V	1800V	MDx500-18-406F3

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			500	A
$I_{F(RMS)}$	RMS forward current		150			785	A
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			40	mA
$I_{FSM}$	Surge forward current	10ms half sine wave	150			15	kA
$I^2t$	$I^2t$ for fusing coordination	$V_R=0.6V_{RRM}$				1125	$\text{A}^2\text{s}\cdot 10^3$
$V_{FO}$	Threshold voltage		150			0.75	V
$r_F$	Forward slope resistance					0.51	m $\Omega$
$V_{FM}$	Peak forward voltage	$I_{FM}=1500\text{A}$	25			1.68	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine Single side cooled per chip				0.13	$^{\circ}\text{C}/\text{W}$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine Single side cooled per chip				0.04	$^{\circ}\text{C}/\text{W}$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, $t=1\text{min}$ , $I_{iso}:1\text{mA}(\text{max})$		2500			V
$F_m$	Terminal connection torque(M10)				12.0		N·m
	Mounting torque(M6)				6.0		N·m
$T_{stg}$	Stored temperature			-40		125	$^{\circ}\text{C}$
$W_t$	Weight				1560		g
<b>Outline</b>	406F3						

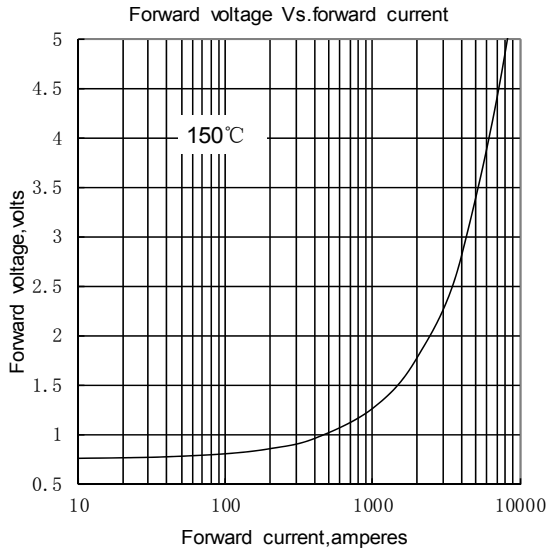


Fig.1

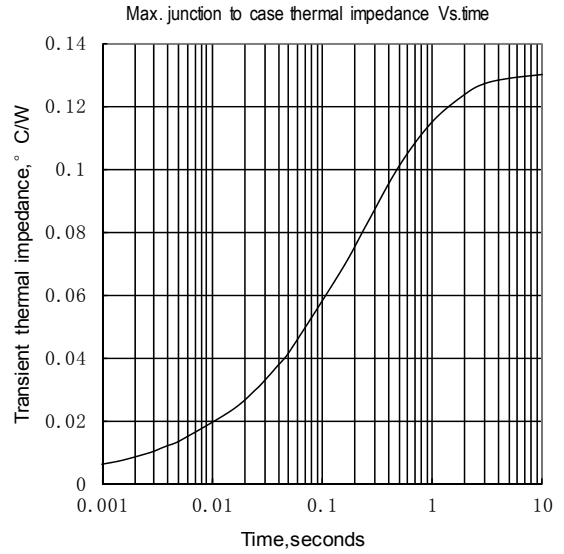


Fig.2

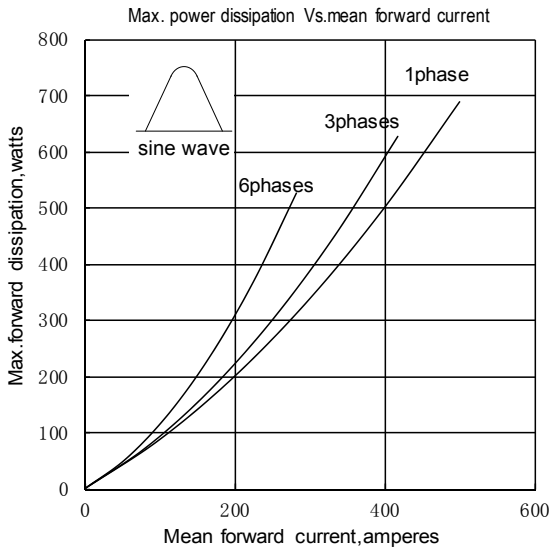


Fig.3

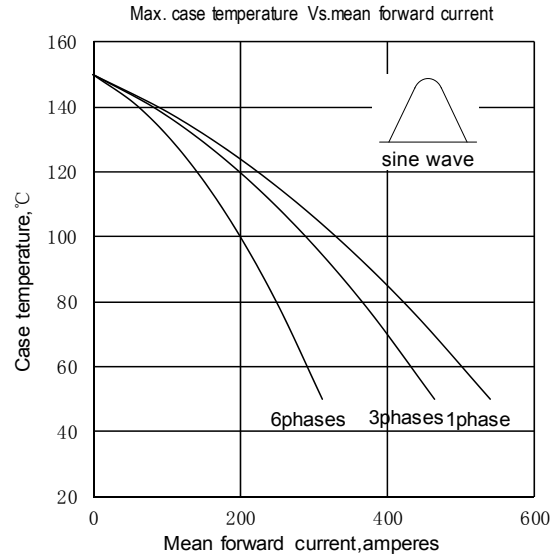


Fig.4

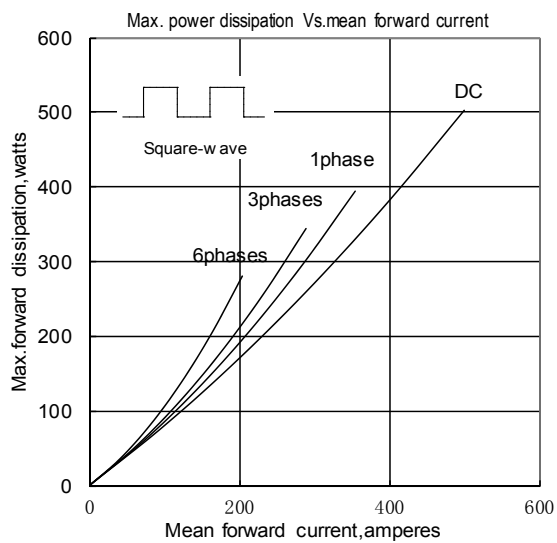


Fig.5

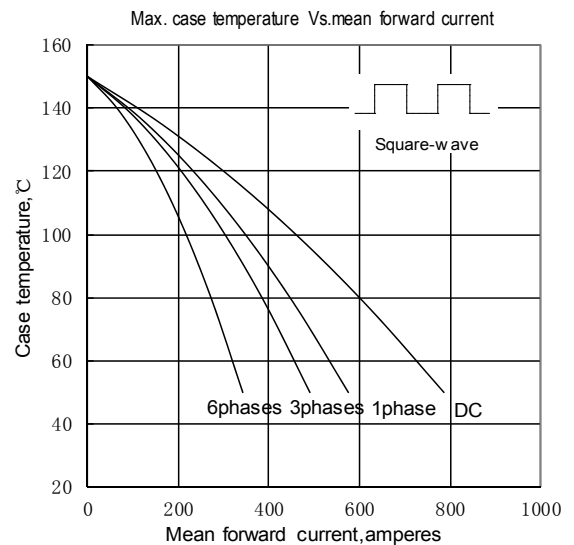


Fig.6

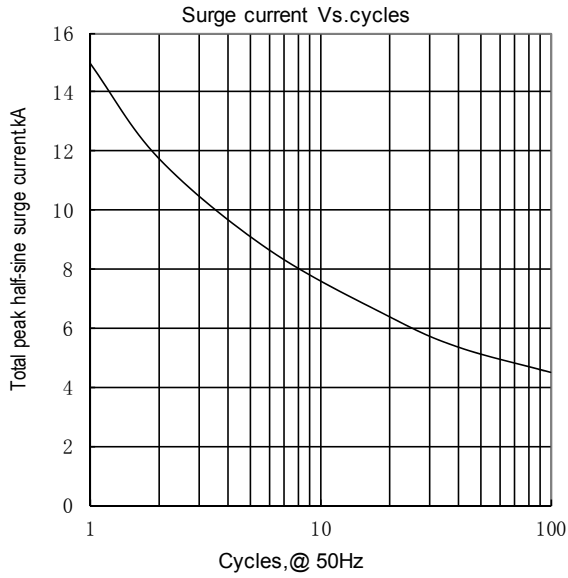


Fig.7

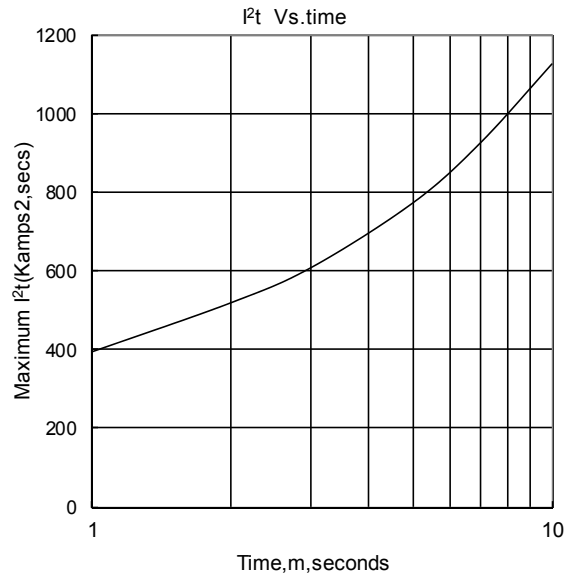
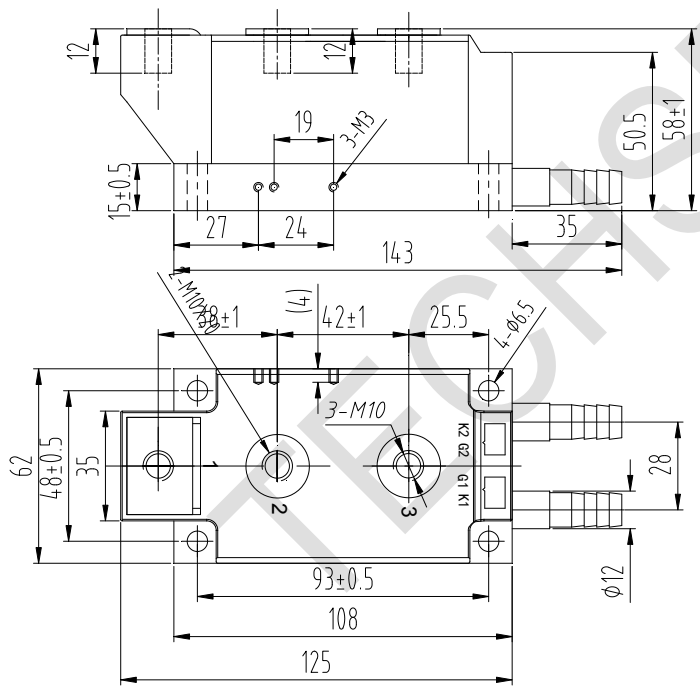


Fig.8

**Outline:**



MDC

MDA

MDK

MD

