**Features:**

- Isolated mounting base 4000V~
- 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
2700V	2600V	MDx500-26-410F3
2900V	2800V	MDx500-28-410F3
3100V	3000V	MDx500-30-410F3
3300V	3200V	MDx500-32-410F3
3500V	3400V	MDx500-34-410F3
3700V	3600V	MDx500-36-410F3

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, $T_C=100^\circ\text{C}$	150			500	A
$I_{F(RMS)}$	RMS forward current		150			785	A
I_{RRM}	Repetitive peak current	at V_{RRM}	150			50	mA
I_{FSM}	Surge forward current	10ms half sine wave $V_R=0.6V_{RRM}$	150			9.0	kA
I^2t	I^2t for fusing coordination					405	$\text{A}^2\text{s}\cdot 10^3$
V_{FO}	Threshold voltage		150			0.95	V
r_F	Forward slope resistance					0.31	$\text{m}\Omega$
V_{FM}	Peak forward voltage	$I_{FM}=1500\text{A}$	25			2.75	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine: Single side cooled per chip				0.075	°C/W
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine: Single side cooled per chip				0.024	°C/W
V_{iso}	Isolation voltage	50Hz, R.M.S, $t=1\text{min}$, $I_{iso}: 1\text{mA}(\text{max})$		4000			V
F_m	Terminal connection torque(M12)				14.0		N·m
	Mounting torque(M8)				12.0		N·m
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight				3240		g
Outline	410F3						

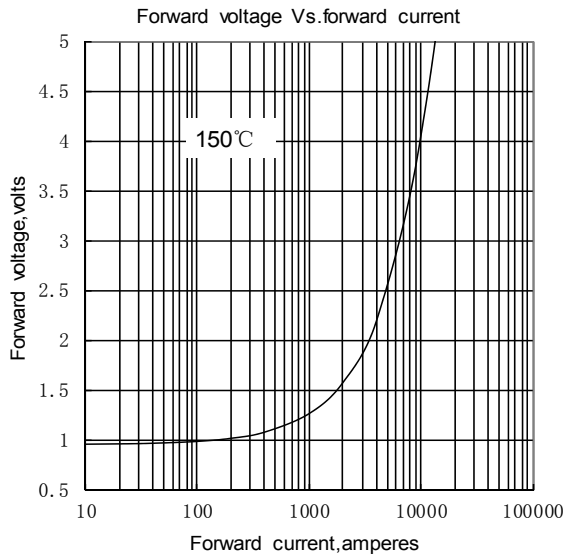


Fig.1

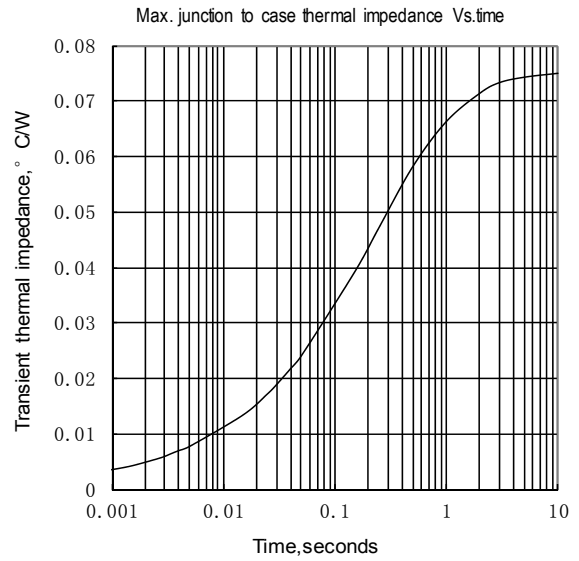


Fig.2

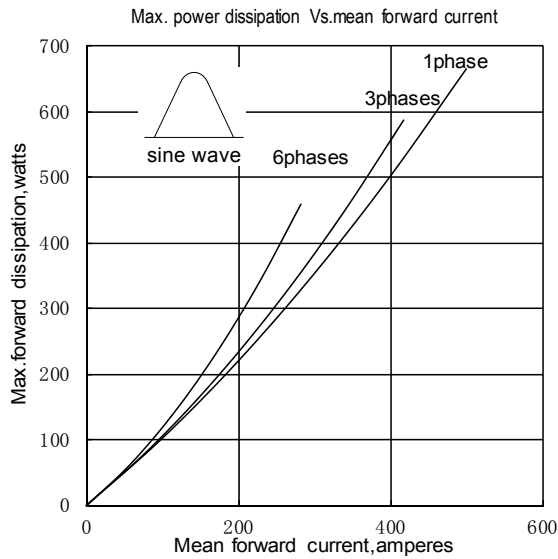


Fig.3

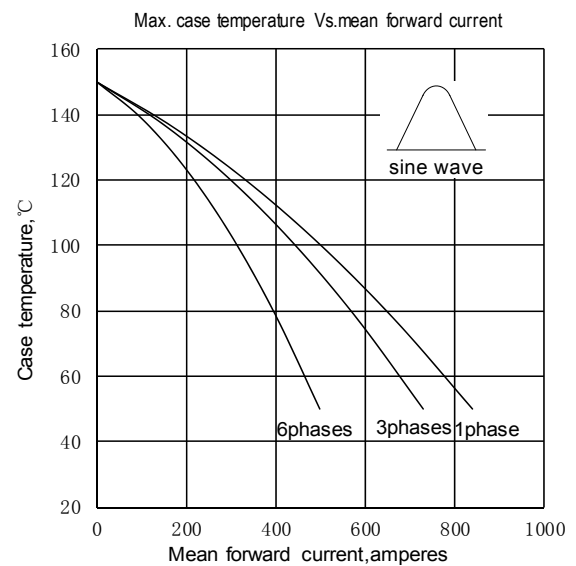


Fig.4

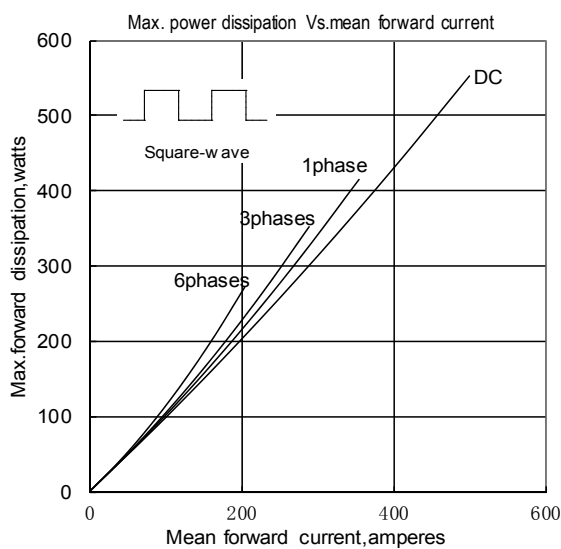


Fig.5

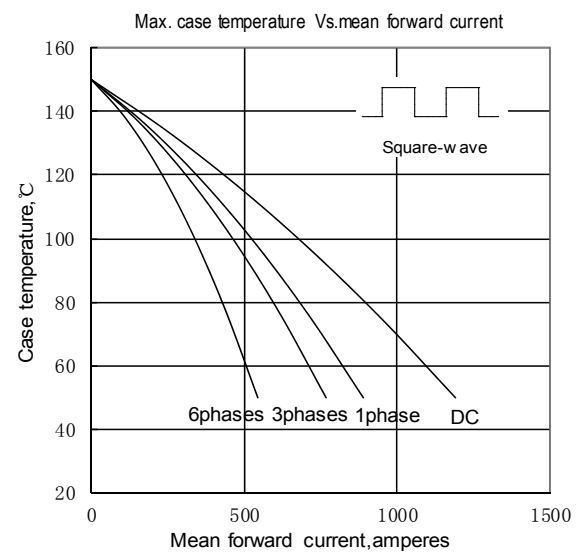


Fig.6

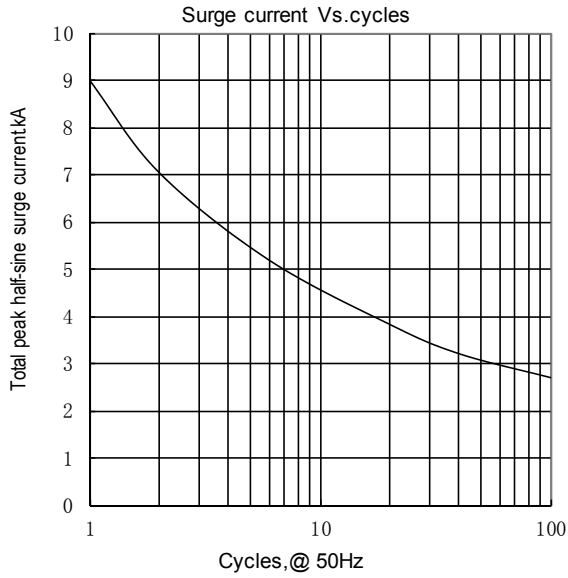


Fig.7

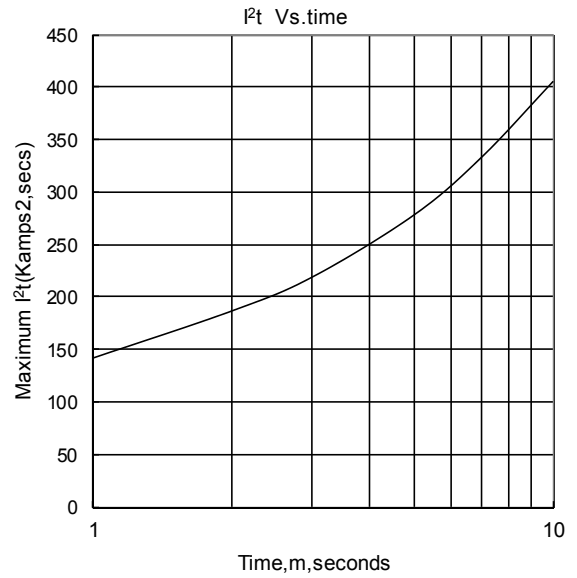
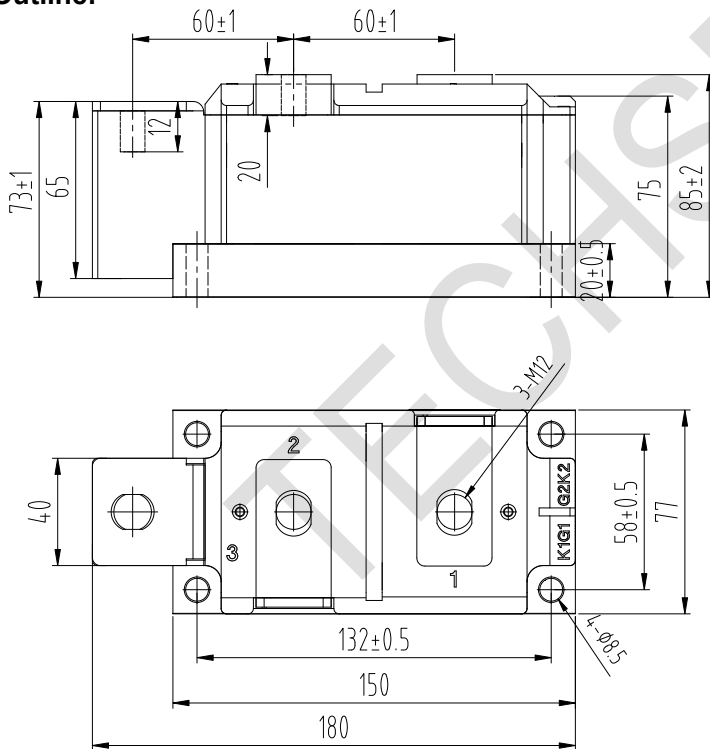
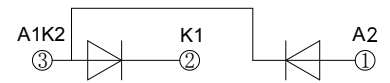


Fig.8

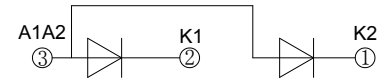
Outline:



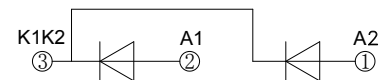
MDC



MDA



MDK



MD

