**Features:**

- Isolated mounting base 3000V~
- 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
2100V	2000V	MDx500-20-416F3
2300V	2200V	MDx500-22-416F3
2600V	2500V	MDx500-25-416F3

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_J(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
$I_{F(AV)}$	Mean forward current	180° half sine wave 50Hz Single side cooled, $T_C=100^{\circ}C$	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 $V_R=0.6V_{RRM}$	150			15	kA
I^2t	I^2t for fusing coordination					1125	A^2s*10^3
V_{FO}	Threshold voltage		150			0.85	V
r_F	Forward slope resistance					0.38	m Ω
V_{FM}	Peak forward voltage	$I_{FM}=1500A$	25			1.63	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine Single side cooled				0.075	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine Single side cooled				0.04	$^{\circ}C/W$
V_{iso}	Isolation voltage	50Hz, R.M.S, t=1min, $I_{iso}:1mA(max)$			3000		V
F_m	Terminal connection torque(M10)				12.0		N·m
	Mounting torque(M6)				6.0		N·m
T_{stg}	Stored temperature			-40		125	$^{\circ}C$
W_t	Weight				1500		g
Outline	416F3						

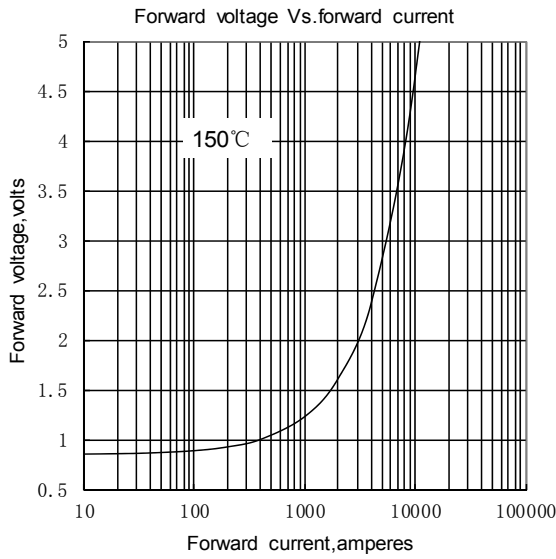


Fig.1

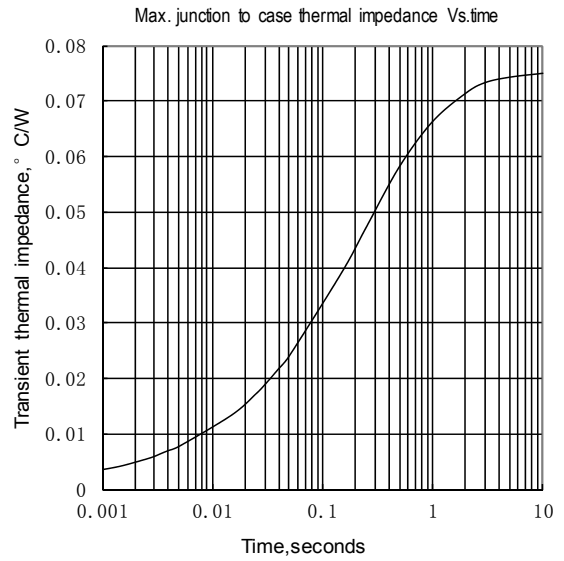


Fig.2

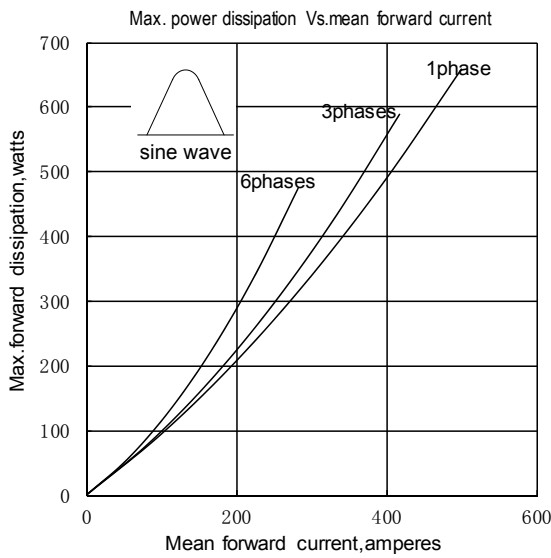


Fig.3

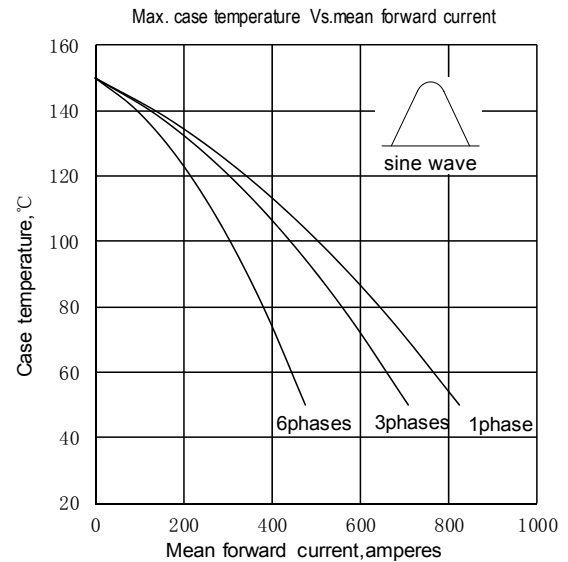


Fig.4

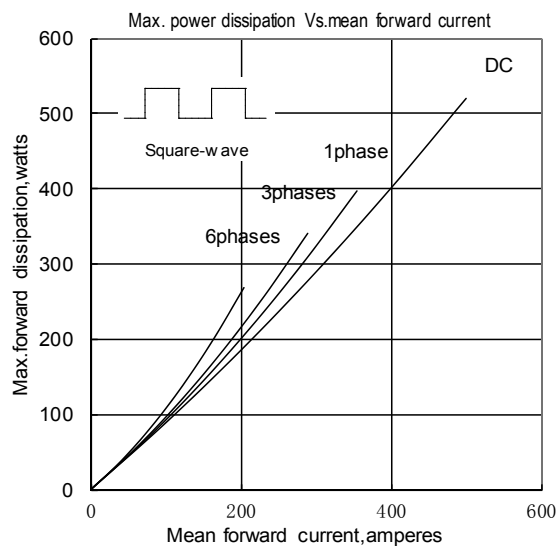


Fig.5

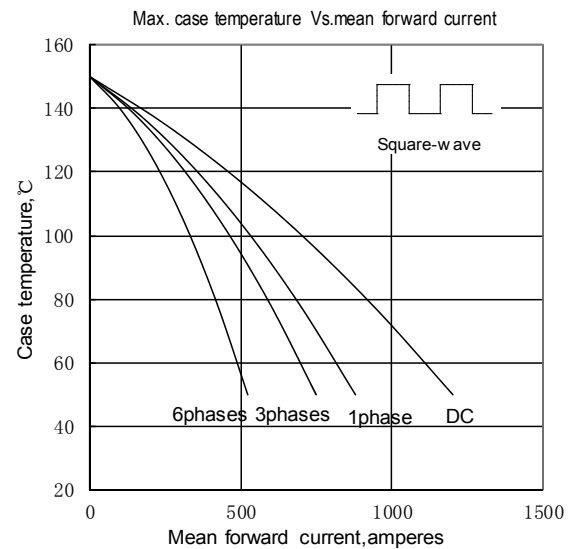


Fig.6

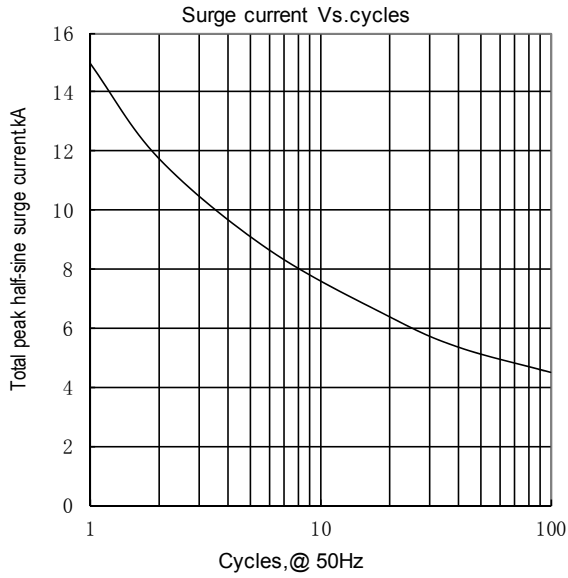


Fig.7

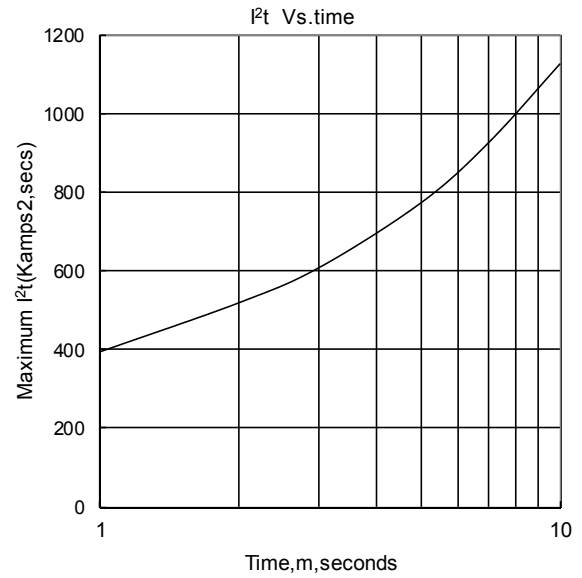
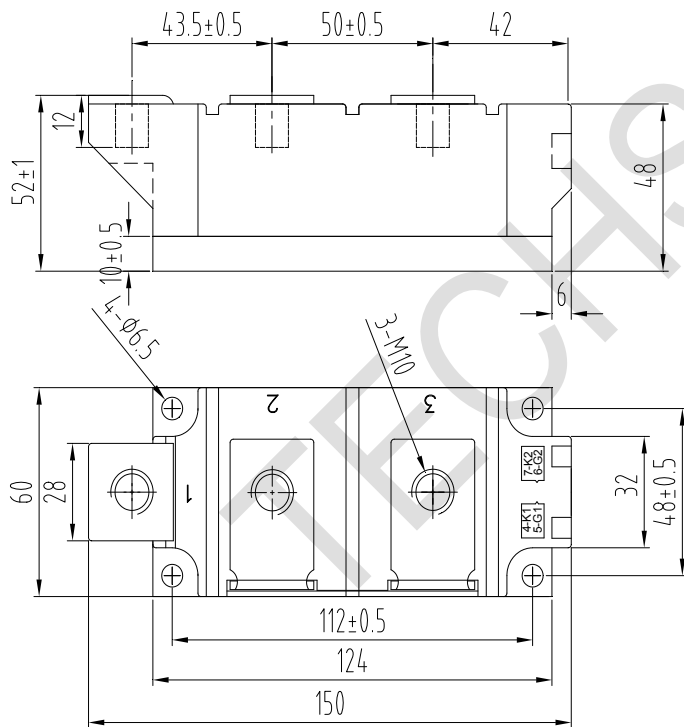
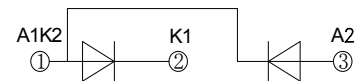


Fig.8

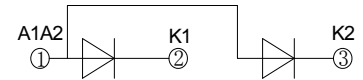
Outline:



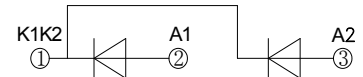
MDC



MDA



MDK



MD

