

**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	MD400-20-417F2
2300V	2200V	MD400-22-417F2
2600V	2500V	MD400-25-417F2

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			400	A
$I_{F(RMS)}$	RMS forward current		150			628	A
I_{RRM}	Repetitive peak current	at V_{RRM}	150			30	mA
I_{FSM}	Surge forward current	10ms half sine wave $V_R=0.6V_{RRM}$	150			13.0	kA
I^2t	I^2t for fusing coordination					845	$\text{A}^2\text{s}\cdot 10^3$
V_{FO}	Threshold voltage		150			0.85	V
r_F	Forward slope resistance					0.49	mΩ
V_{FM}	Peak forward voltage	$I_{FM}=1200\text{A}$	25			1.55	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine Single side cooled per chip				0.09	°C/W
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine Single side cooled per chip				0.04	°C/W
V_{iso}	Isolation voltage	50Hz, R.M.S, $t=1\text{min}$, $I_{iso}:1\text{mA}(\text{max})$		3000			V
F_m	Terminal connection torque(M10)				12.0		N·m
	Mounting torque(M8)				6.0		N·m
T_{vj}	Junction temperature			-40		150	°C
T_{stg}	Stored temperature			-40		125	°C
W_t	Weight				775		g
Outline	417F2						

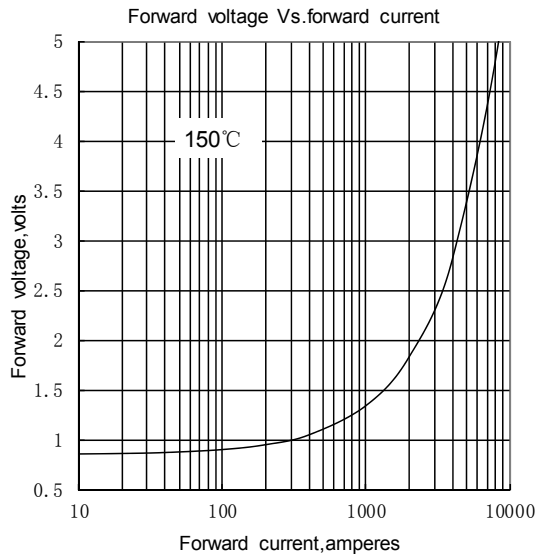


Fig.1

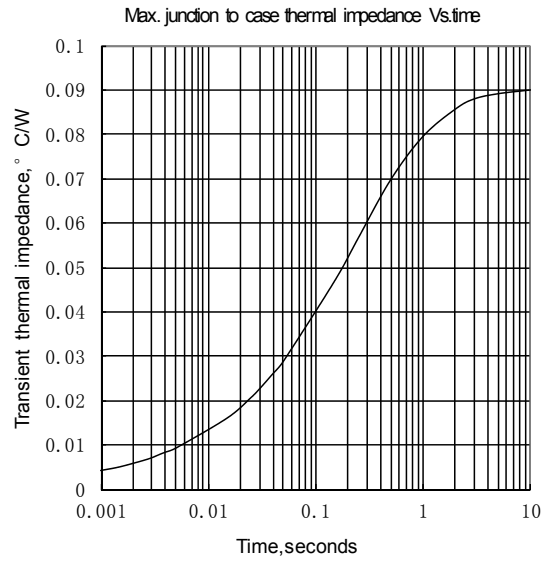


Fig.2

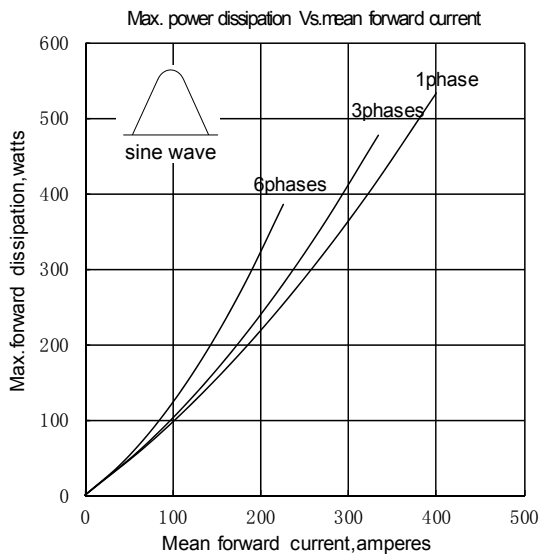


Fig.3

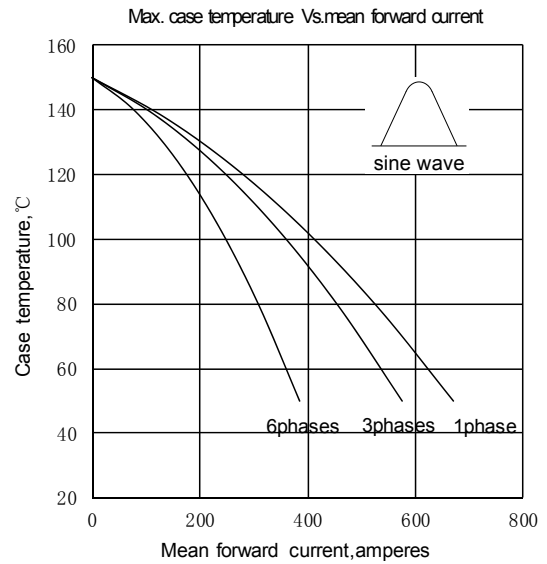


Fig.4

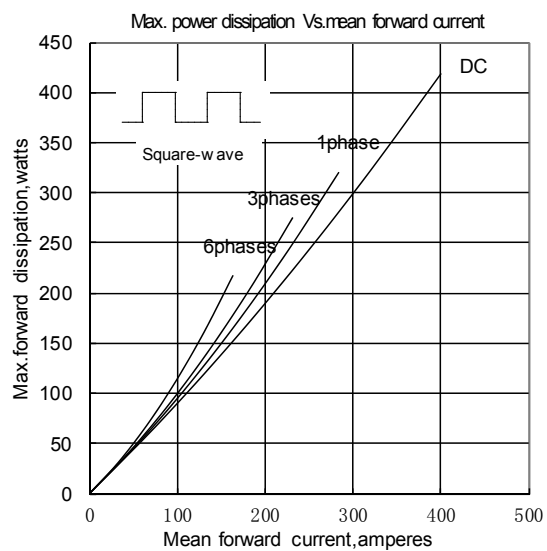


Fig.5

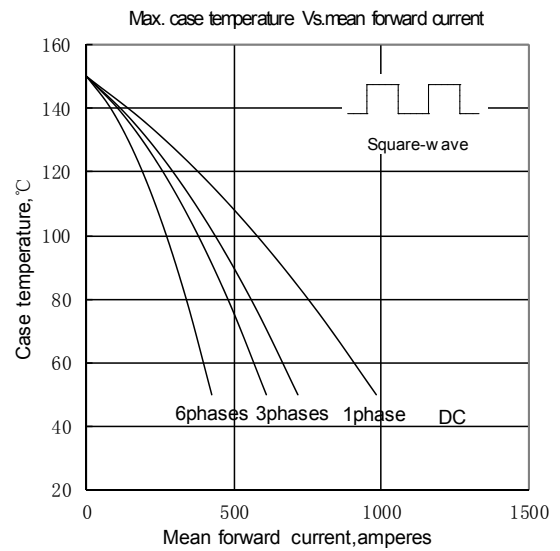


Fig.6

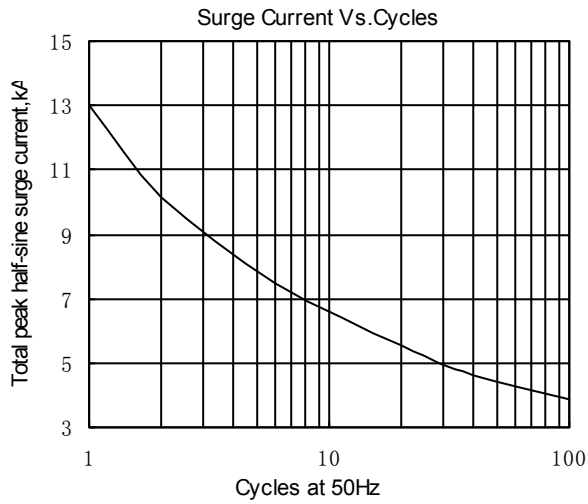


Fig.7

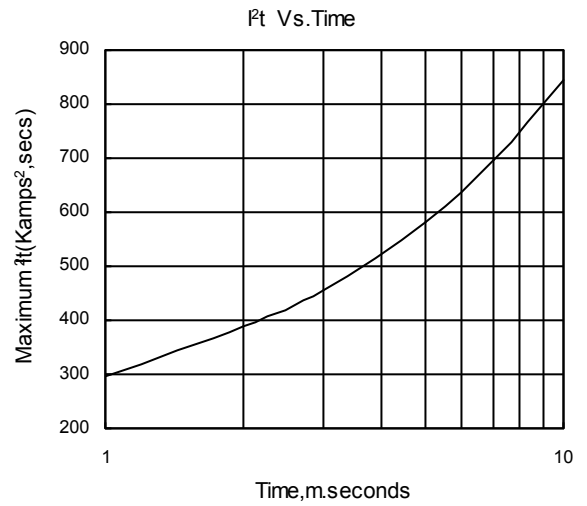


Fig.8

Outline:

