**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	MDx600-08-417F2
1100V	1000V	MDx600-10-417F2
1300V	1200V	MDx600-12-417F2
1500V	1400V	MDx600-14-417F2
1700V	1600V	MDx600-16-417F2
1900V	1800V	MDx600-18-417F2

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			600	A
$I_{F(RMS)}$	RMS forward current		150			942	A
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			45	mA
$I_{FSM}$	Surge forward current	10ms half sine wave $V_R=0.6V_{RRM}$	150			19.0	kA
$I^2t$	$I^2t$ for fusing coordination					1805	$A^2s \cdot 10^3$
$V_{FO}$	Threshold voltage		150			0.75	V
$r_F$	Forward slope resistance					0.28	m $\Omega$
$V_{FM}$	Peak forward voltage	$I_{FM}=1800A$	25			1.50	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine Single side cooled per chip				0.065	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine Single side cooled per chip				0.024	$^{\circ}C/W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, $t=1min, I_{iso}: 1mA(max)$		2500			V
$F_m$	Terminal connection torque(M10)				12.0		N·m
	Mounting torque(M6)				6.0		N·m
$T_{vj}$	Junction temperature			-40		150	$^{\circ}C$
$T_{stg}$	Stored temperature			-40		125	$^{\circ}C$
$W_t$	Weight				775		g
Outline	417F2						

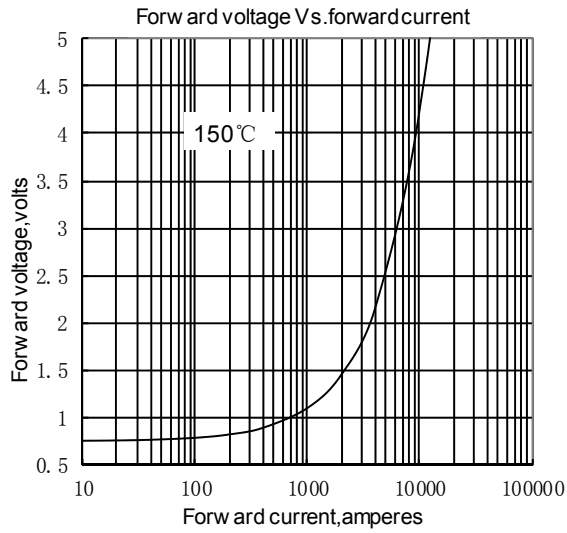


Fig. 1

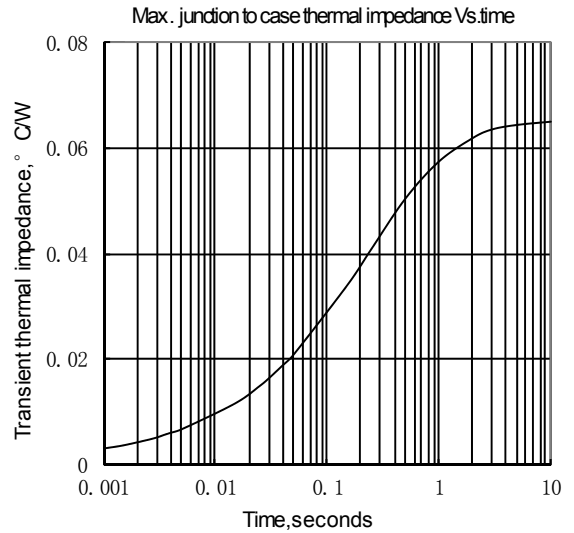


Fig. 2

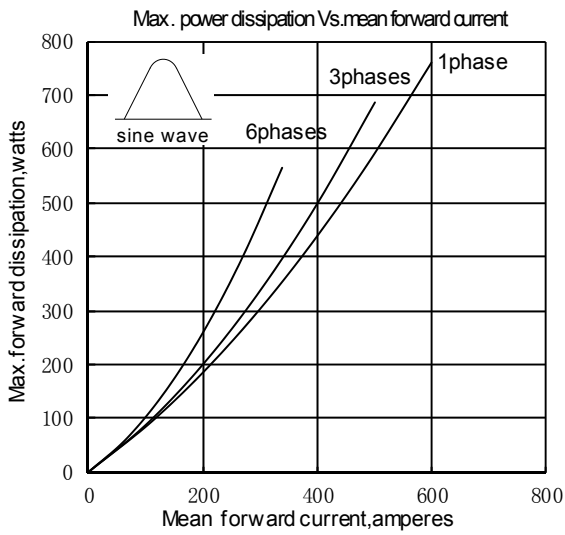


Fig. 3

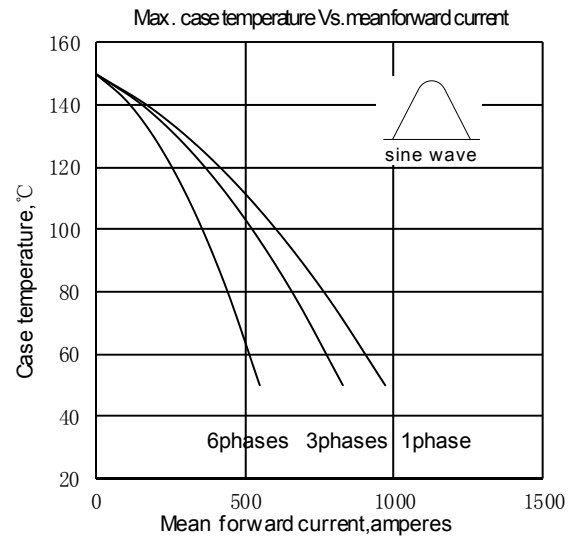


Fig. 4

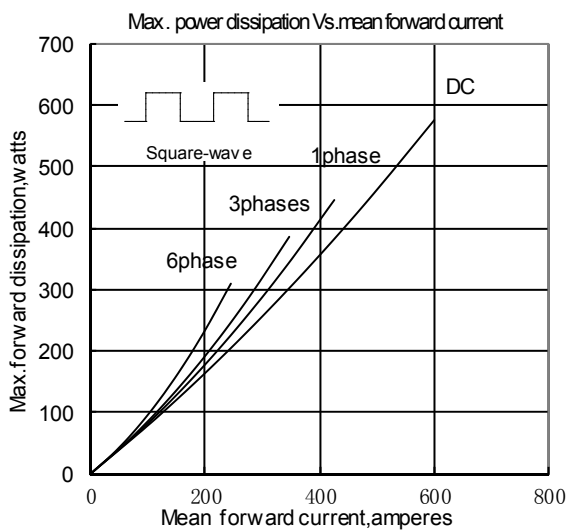


Fig. 5

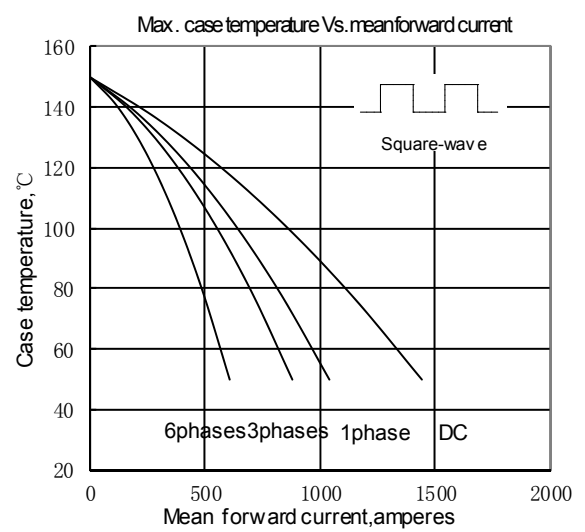


Fig. 6

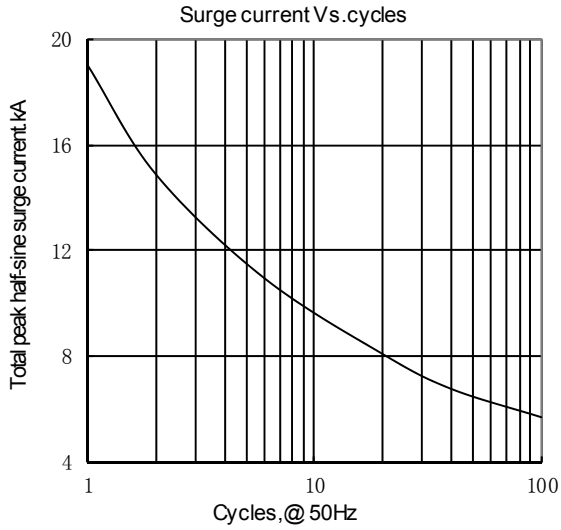


Fig.7

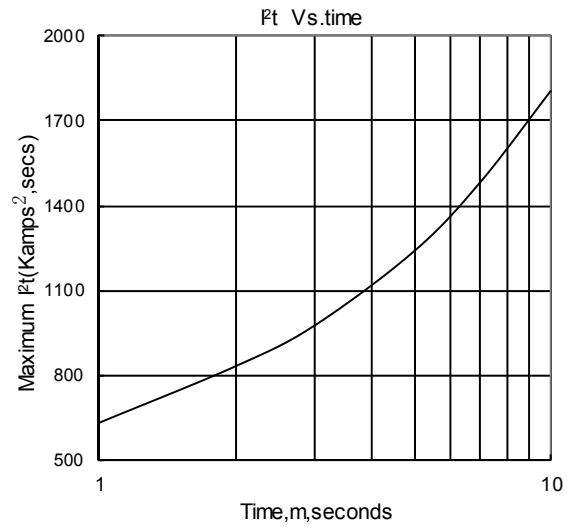


Fig.8

Outline:

