

Features:

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

Typical Applications

- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

$I_{F(AV)}$	1200A
V_{RRM}	600~1800V
I_{FSM}	34 A$\times 10^3$
I^2t	5780A2 S$\times 10^3$



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			1200	A
$I_{F(RMS)}$	RMS forward current		150			1884	A
V_{RRM}	Repetitive peak reverse voltage	V_{RRM} tp=10ms $V_{RSM}=V_{RRM}+100\text{V}$	150	600		1800	V
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			34	KA
I^2t	I^2T for fusing coordination					5780	$\text{A}^2\text{s} \times 10^3$
V_{FO}	Threshold voltage		150			0.71	V
r_F	Forward slop resistance					0.11	$\text{m}\Omega$
V_{FM}	Peak forward voltage	$I_{FM}=3000\text{A}$	25			1.86	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine Single side cooled				0.040	$^\circ\text{C}/\text{W}$
$R_{th(c-h)}$	Thermal resistance case to heat sink	At 180° sine Single side cooled				0.020	$^\circ\text{C}/\text{W}$
V_{Is}	Isolation voltage	50Hz,R.M.S,t=1min, I_{Is} : 1mA(max)		2500			V
F_m	Terminal connection torque(M12)				14		$\text{N}\cdot\text{m}$
	Mounting torque(M8)				12		$\text{N}\cdot\text{m}$
T_{stg}	Stored temperature			-40		125	$^\circ\text{C}$
W_t	Weight				3800		g
Outline	412F3/432F2						

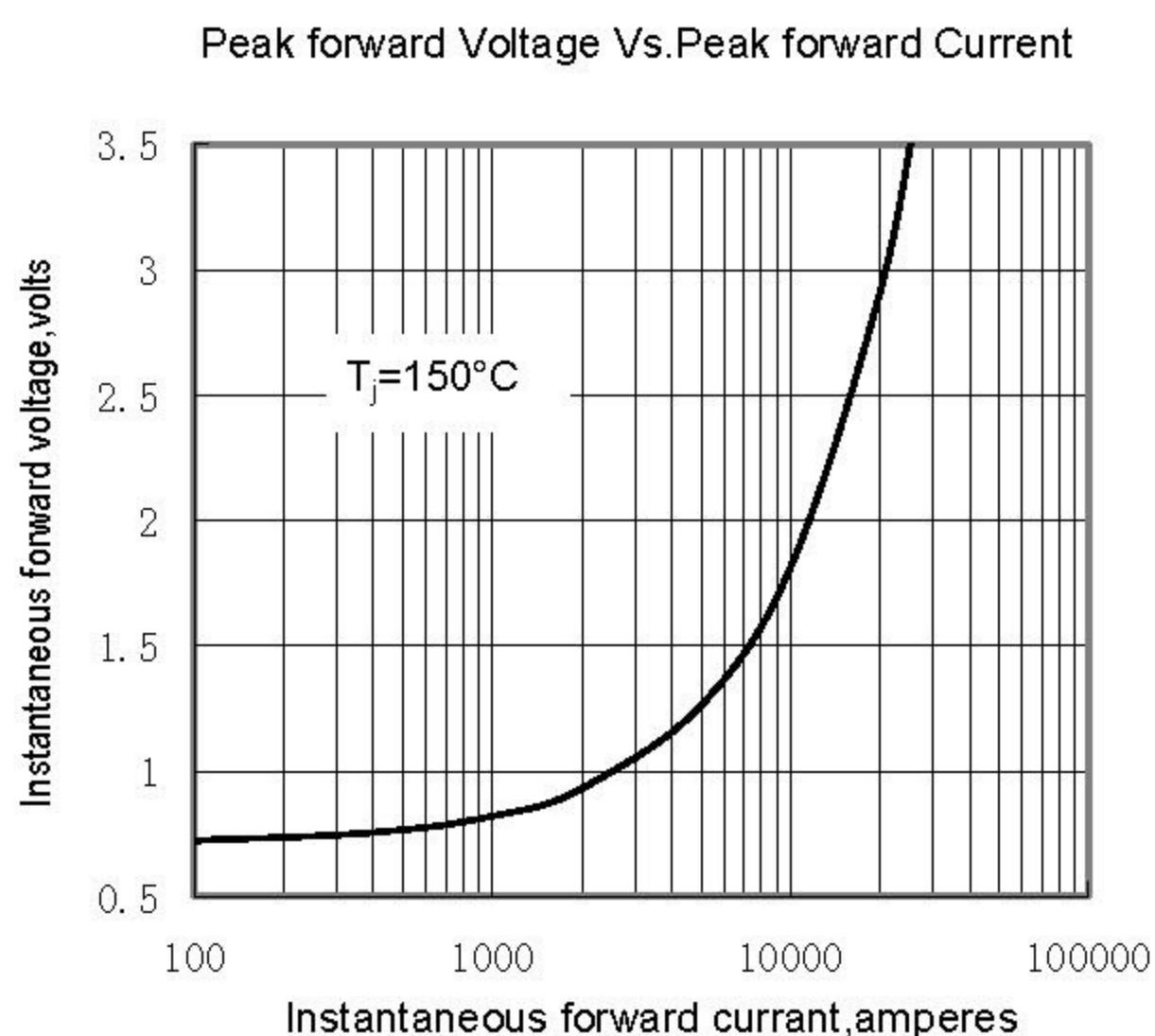


Fig.1

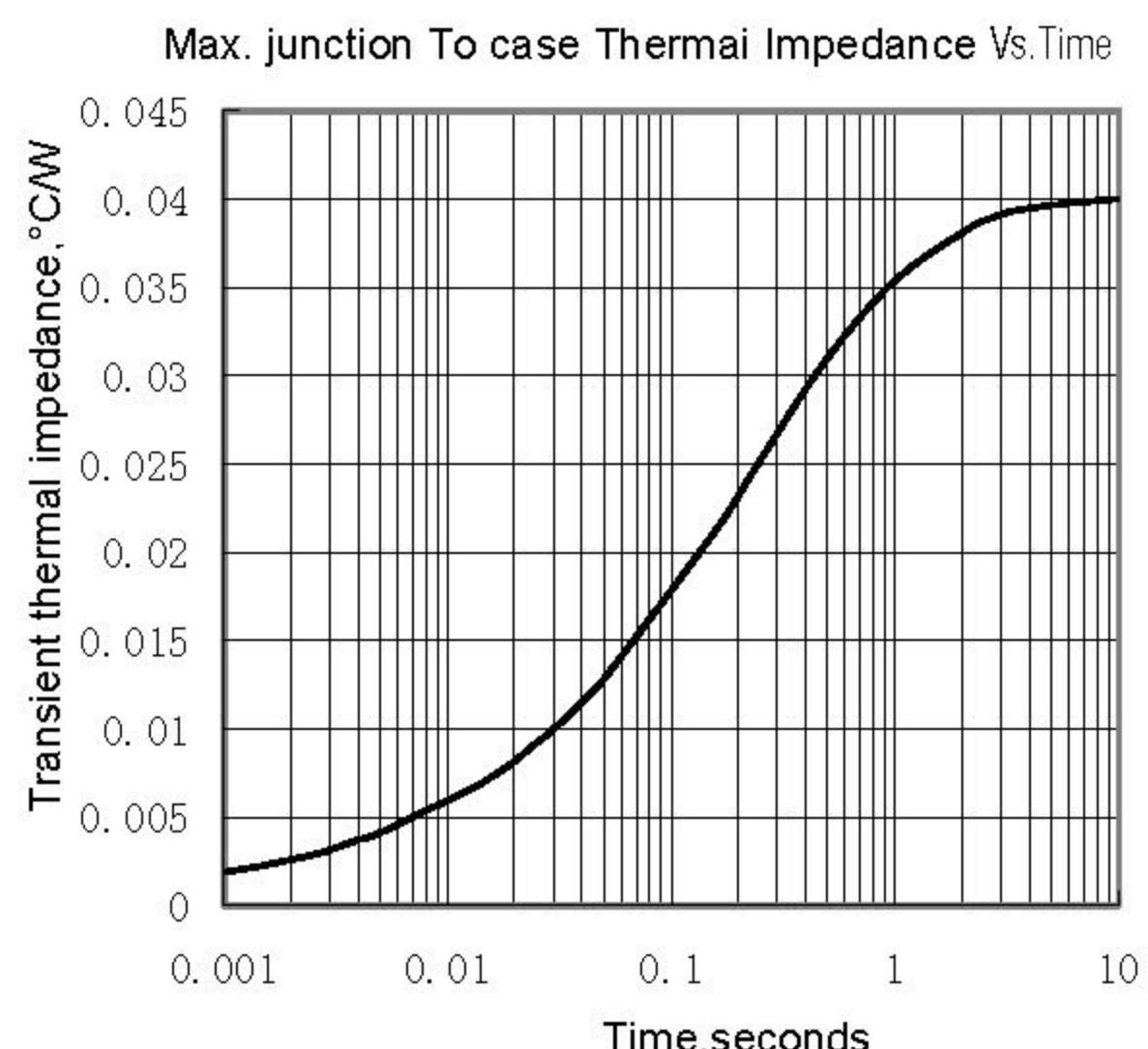


Fig.2

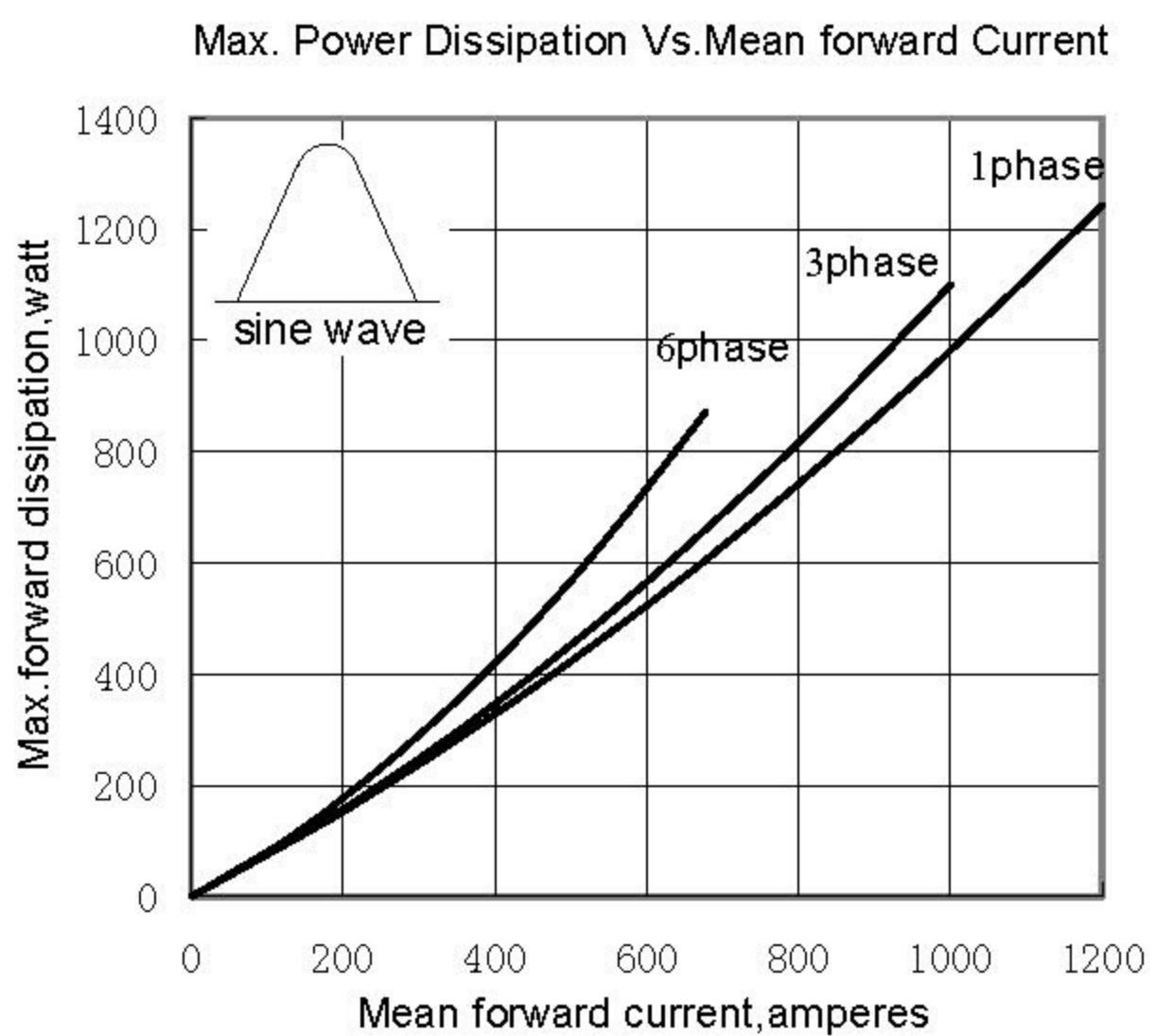


Fig.3

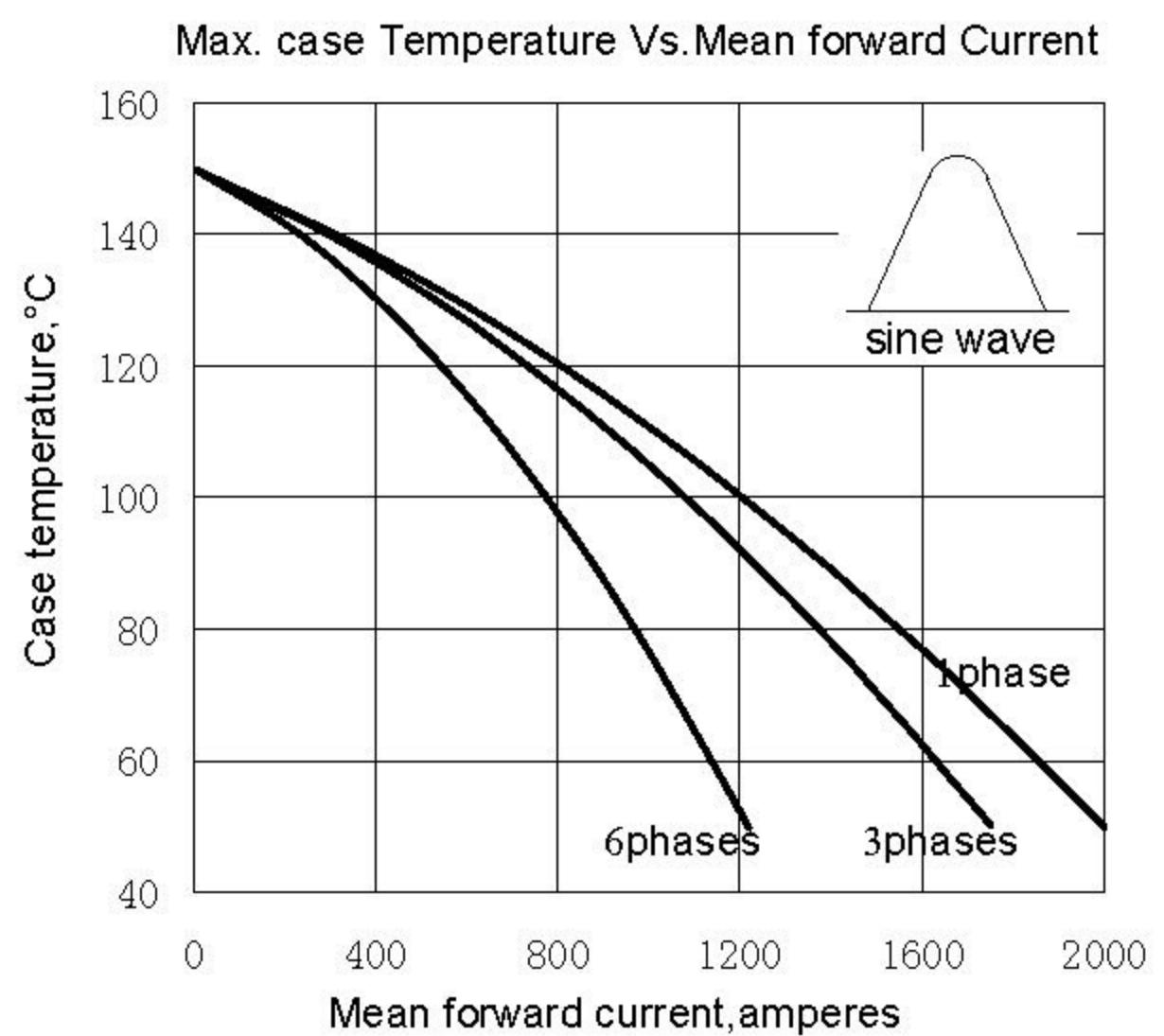


Fig.4

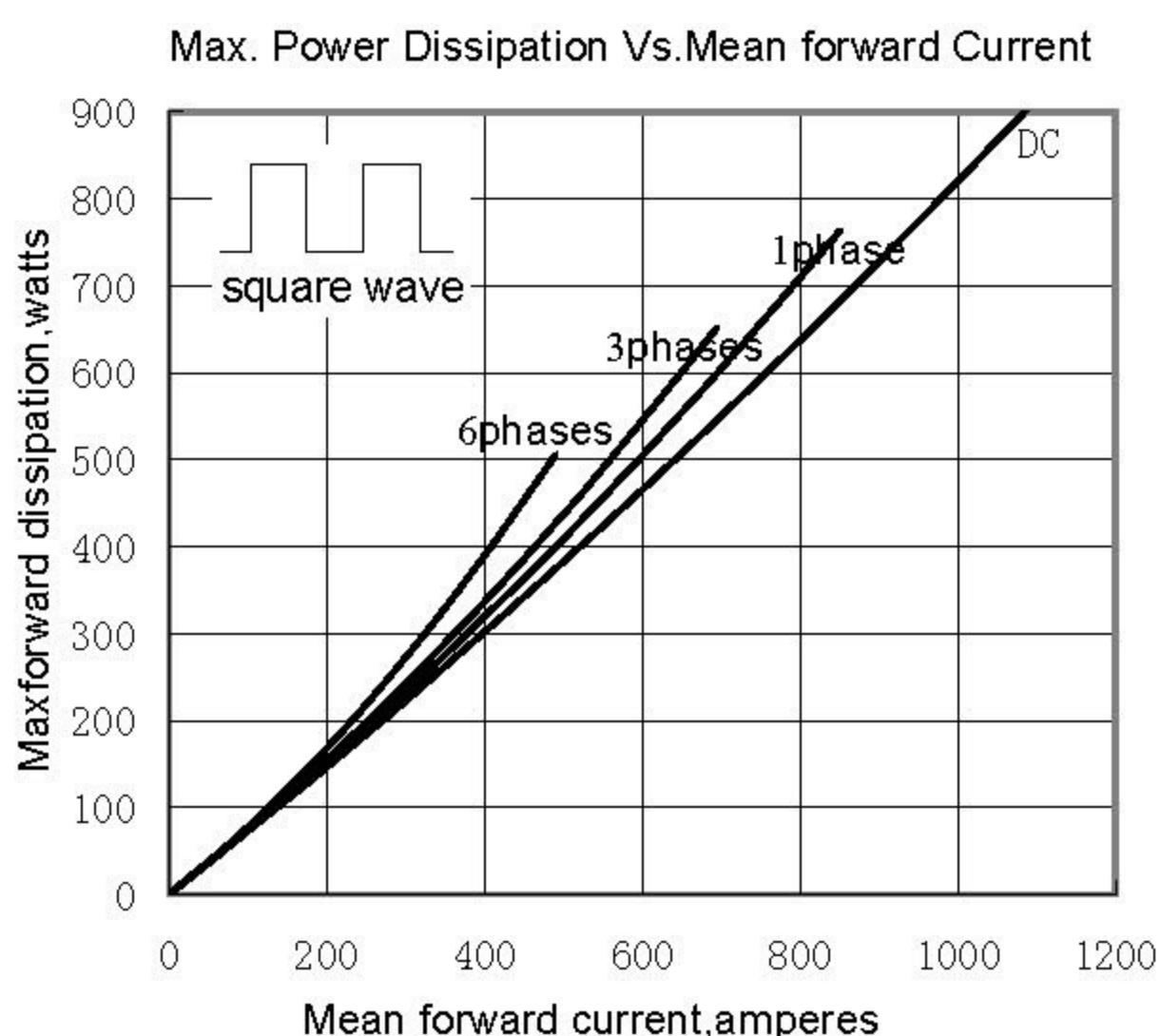


Fig.5

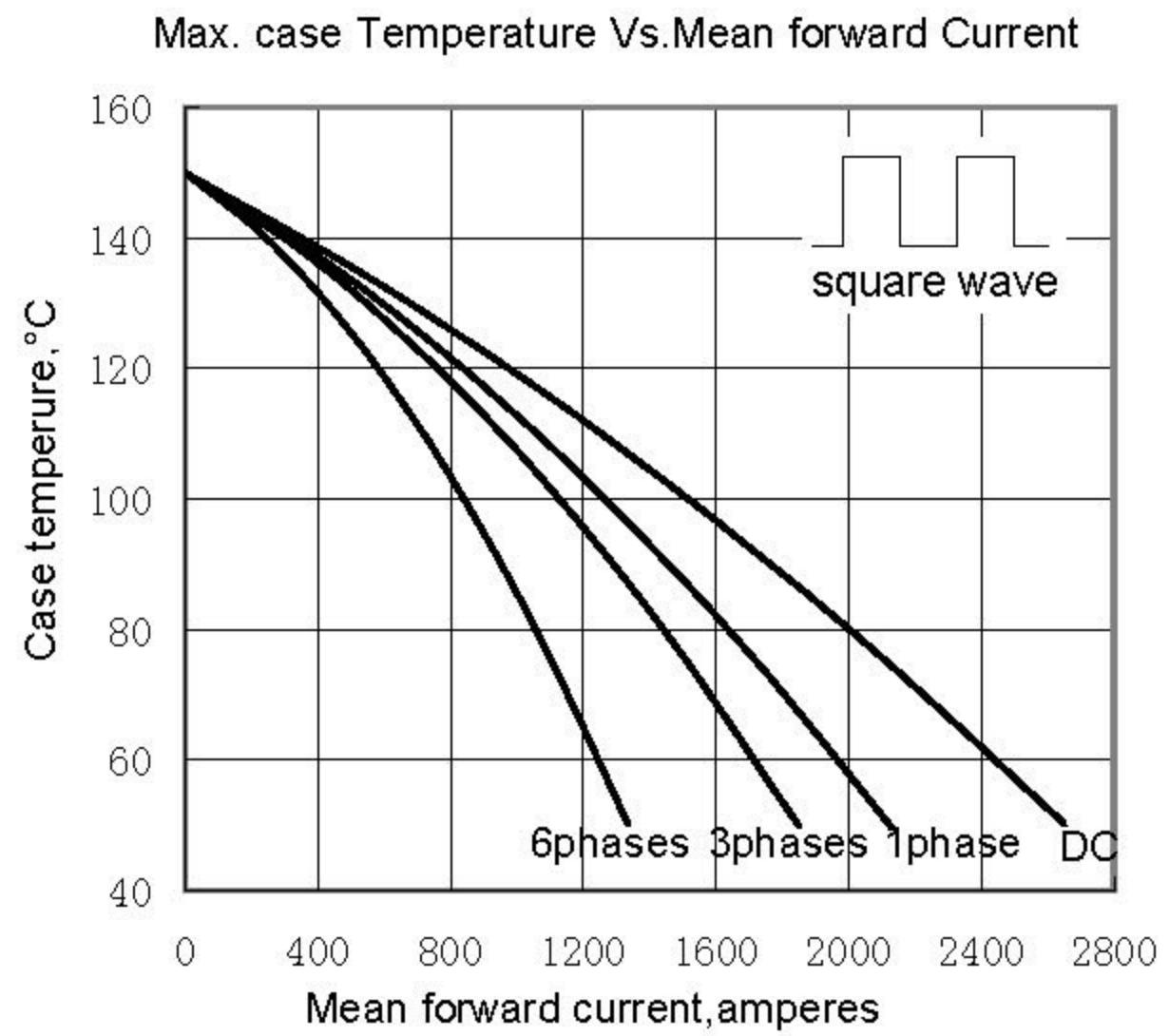


Fig.6

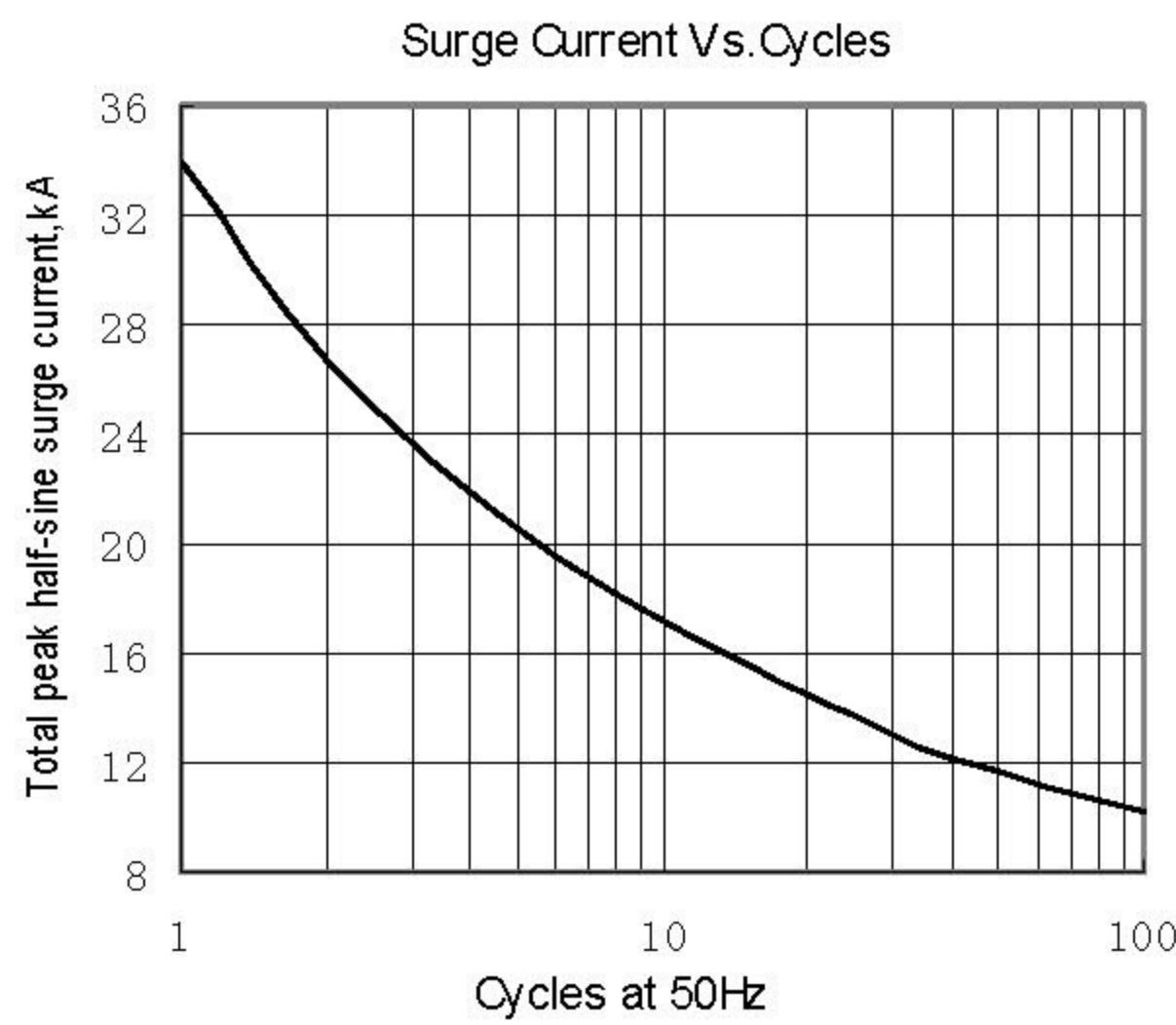


Fig.7

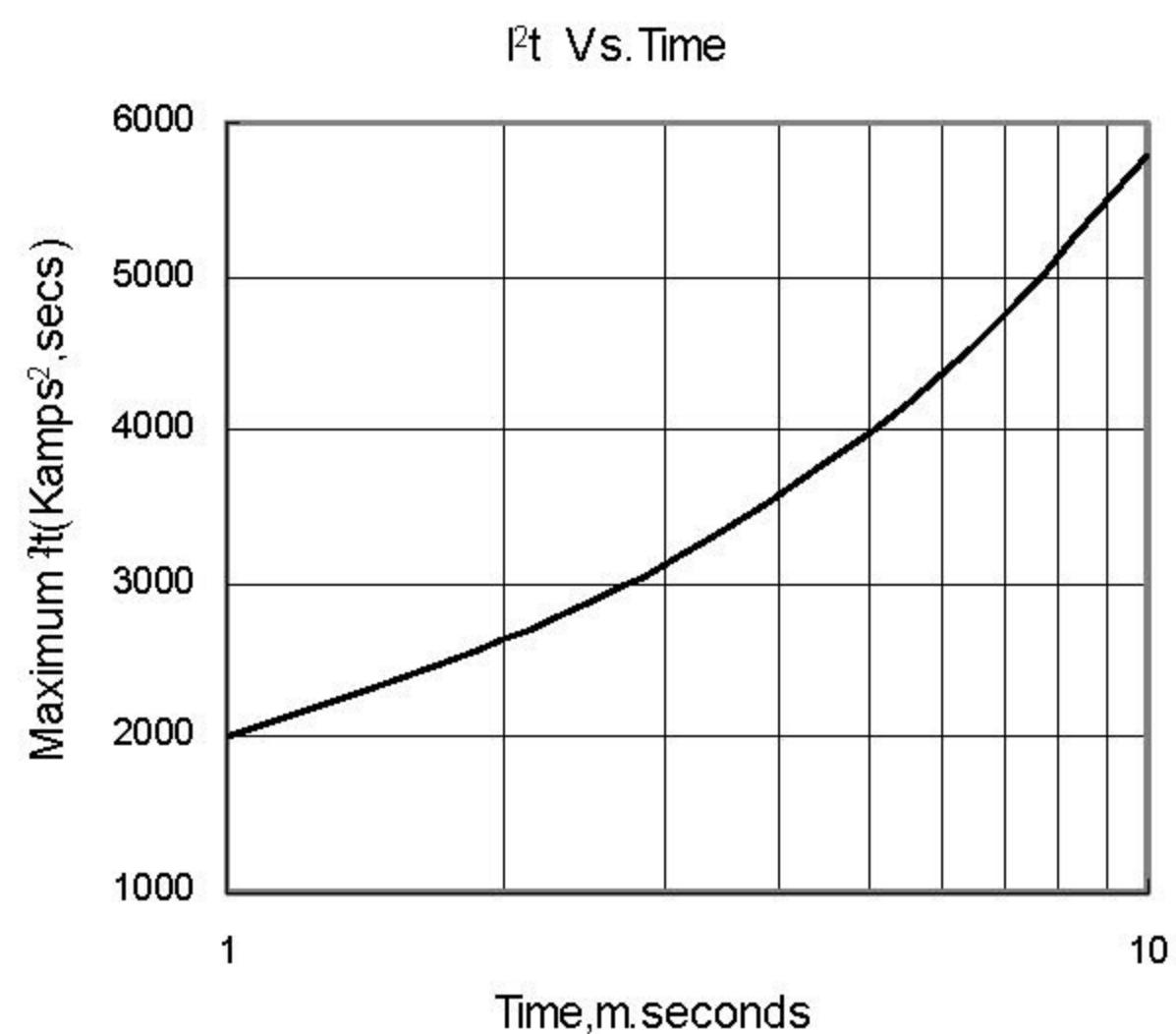


Fig.8

Outline:

