

Features :

- Isolated mounting base 3000V~
- Pressure contact technology with Increased power cycling capability
- Space and weight saving

Typical Applications

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

V_{RSM}	V_{RRM}	Type
2100V	2000V	Mx800D200
2300V	2200V	Mx800D220
2600V	2500V	Mx800D250

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			800	A
$I_{F(RMS)}$	RMS forward current		150			1256	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			22	kA
I^2t	I^2t for fusing coordination					2420	$\text{A}^2\text{s}\cdot 10^3$
V_{FO}	Threshold voltage		150			0.70	V
r_F	Forward slope resistance					0.20	$\text{m}\Omega$
V_{FM}	Peak forward voltage	$I_{FM}=3000\text{A}$	25			1.95	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180°sine Single side cooled per chip				0.058	$^\circ\text{C}/\text{W}$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine Single side cooled per chip				0.024	$^\circ\text{C}/\text{W}$
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(M12)				14.0		N·m
	Mounting torque(M8)				12.0		N·m
T_{vj}	Junction temperature			-40		150	$^\circ\text{C}$
T_{stg}	Stored temperature			-40		125	$^\circ\text{C}$
W_t	Weight				3240		g
Outline	M07						

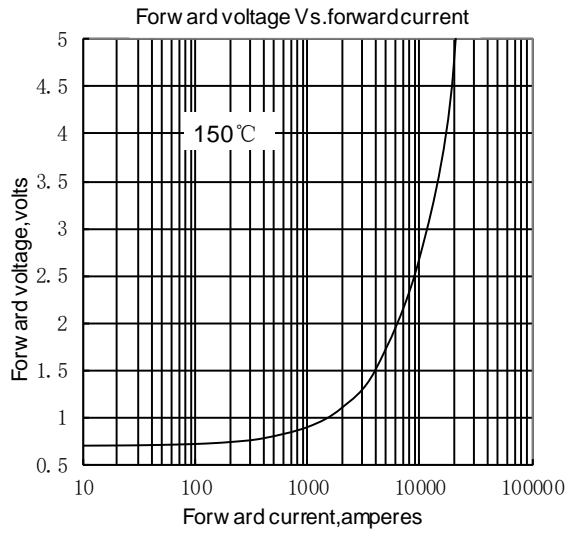


Fig.1

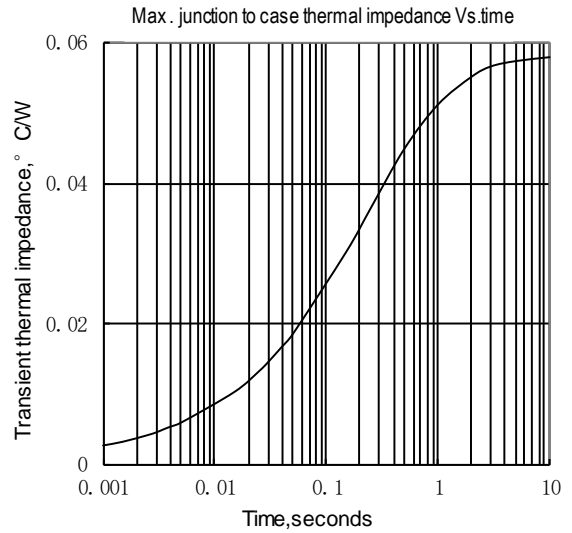


Fig.2

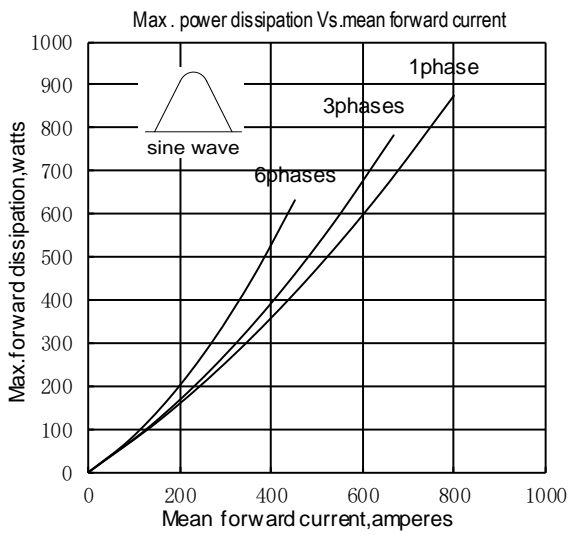


Fig.3

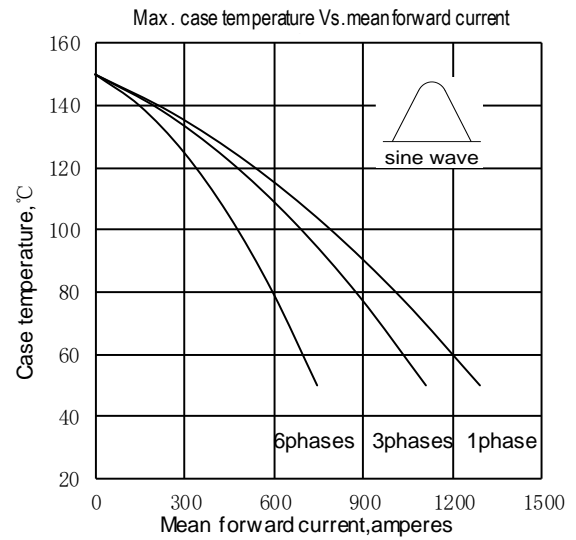


Fig.4

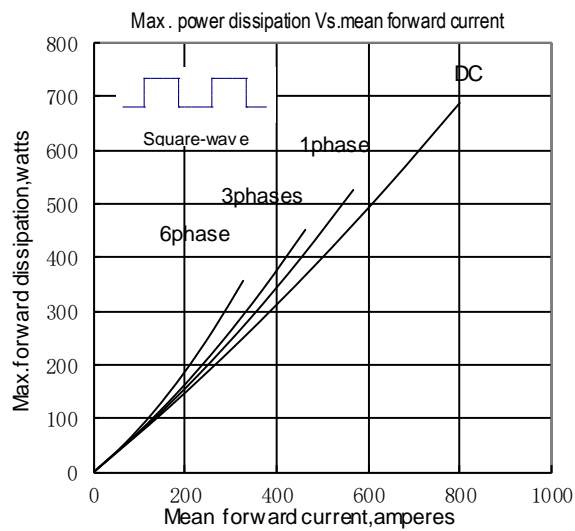


Fig.5

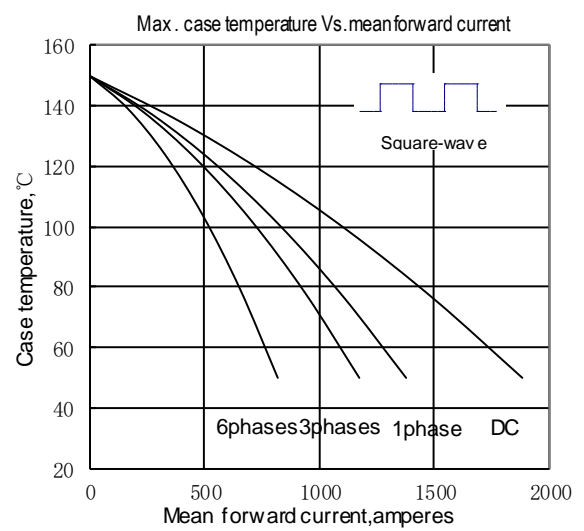


Fig.6

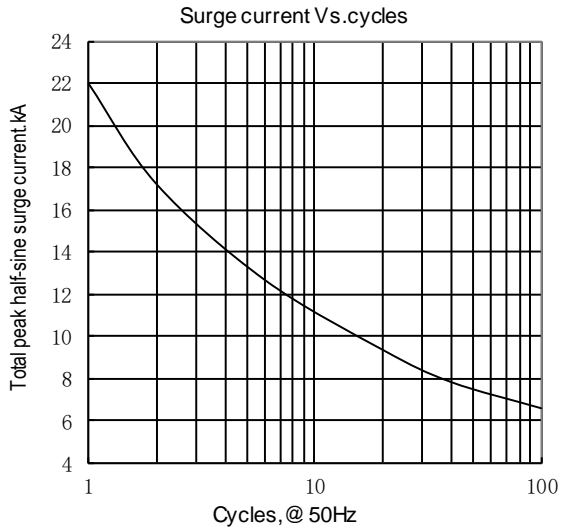


Fig.7

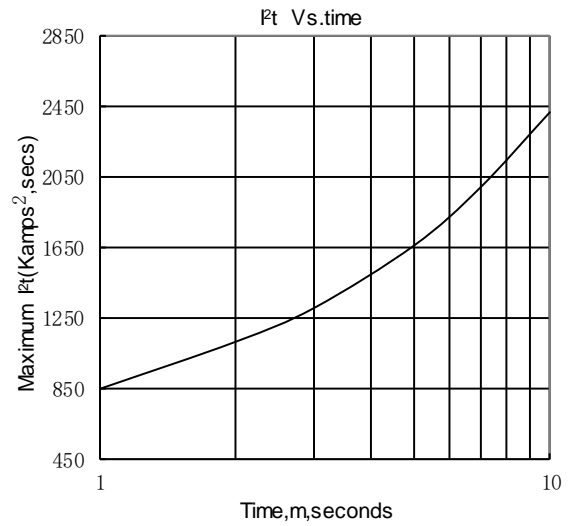


Fig.8

Outline:

