

**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
900V	800V	Mx250D80
1100V	1000V	Mx250D100
1300V	1200V	Mx250D120
1500V	1400V	Mx250D140
1700V	1600V	Mx250D160
1900V	1800V	Mx250D180

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			250	A
$I_{F(RMS)}$	RMS forward current		150			393	A
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			20	mA
$I_{FSM}$	Surge forward current	10ms half sine wave $V_R=0.6V_{RRM}$	150			9.5	kA
$I^2t$	$I^2t$ for fusing coordination					361	$\text{A}^2\text{s} \times 10^3$
$V_{FO}$	Threshold voltage		150			0.75	V
$r_F$	Forward slope resistance					0.76	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=750\text{A}$	25			1.35	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine Single side cooled per chip				0.14	°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=1min, $I_{iso}=1\text{mA}(\text{max})$			3000		V
$F_m$	Terminal connection torque(M8)				12.0		N·m
	Mounting torque(M6)				6.0		N·m
$T_{vj}$	Junction temperature			-40		150	°C
$T_{stg}$	Stored temperature			-40		125	°C
$W_t$	Weight				810		g
<b>Outline</b>	M03						

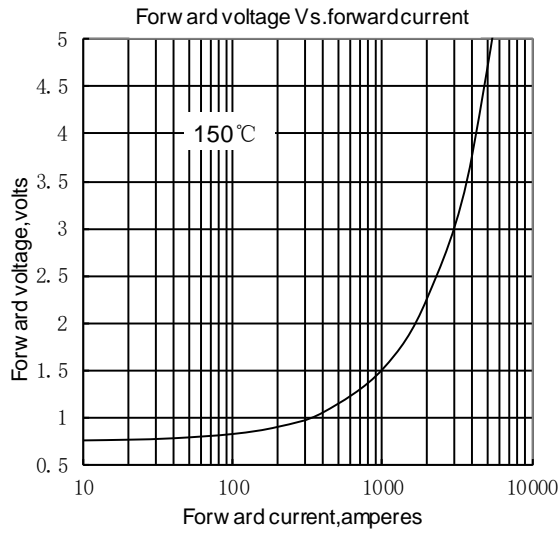


Fig. 1

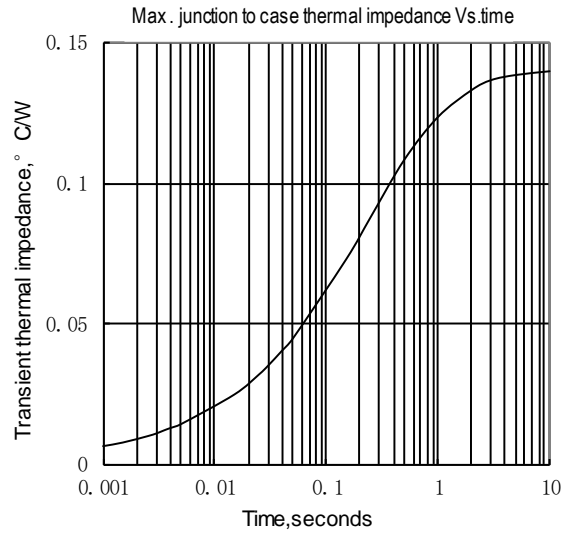


Fig. 2

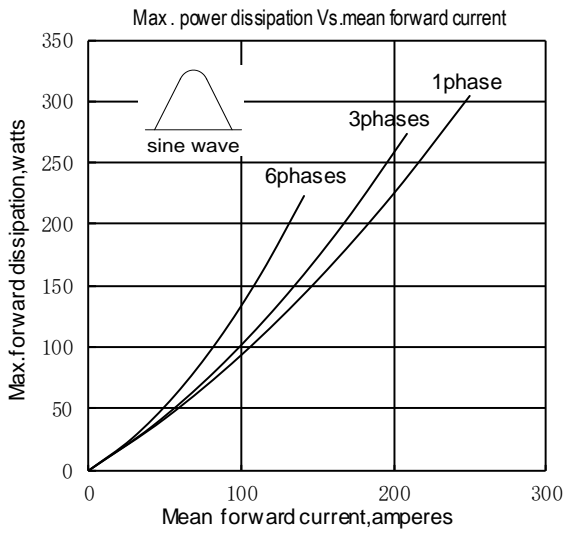


Fig. 3

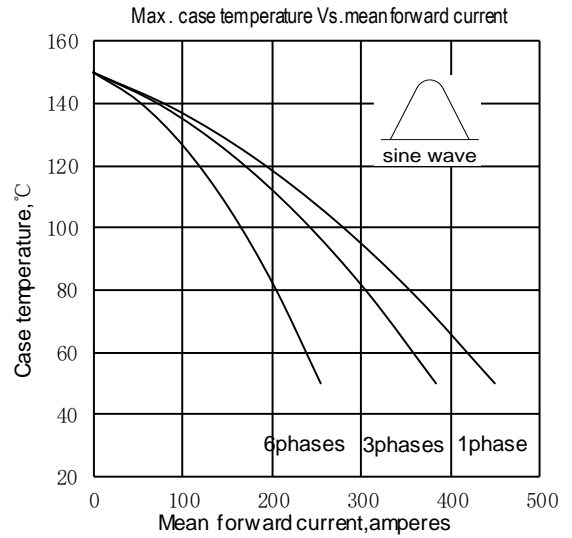


Fig. 4

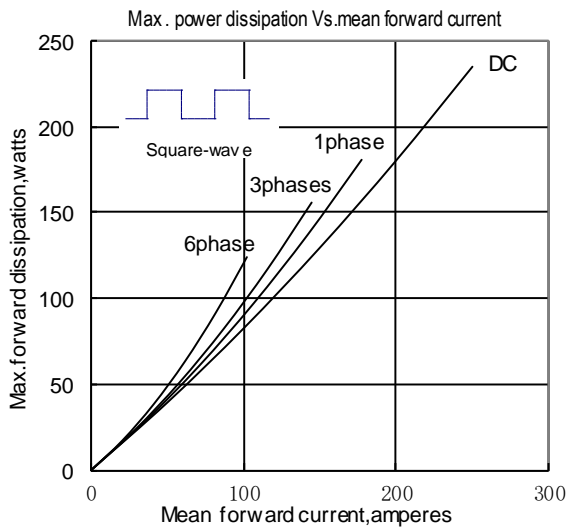


Fig. 5

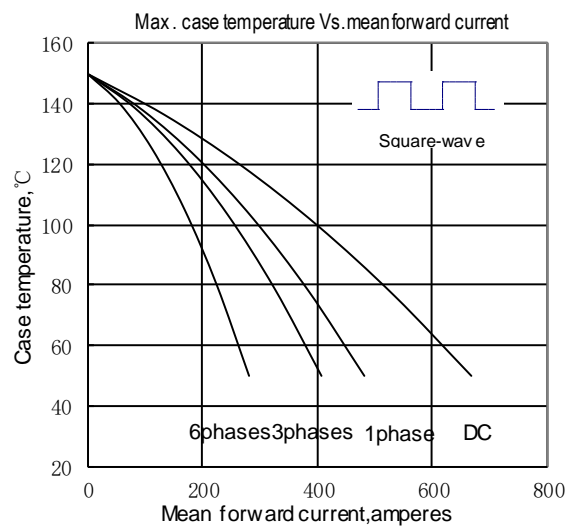


Fig. 6

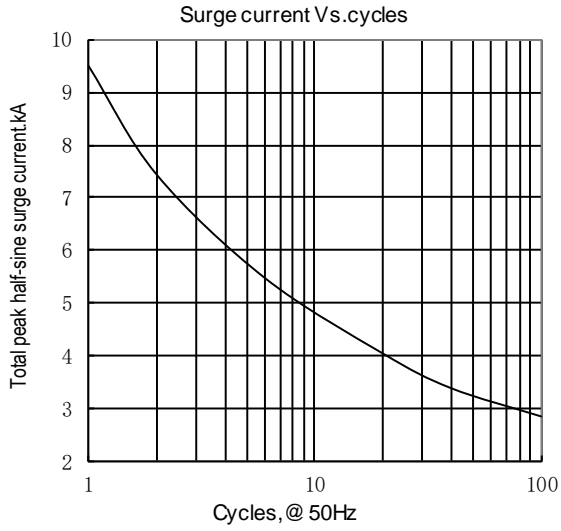


Fig.7

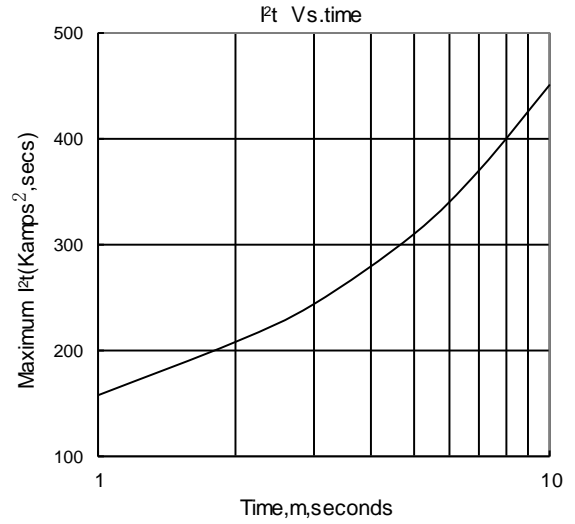


Fig.8

Outline:

