

**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	MDx90-20-223F3
2300V	2200V	MDx90-22-223F3
2600V	2500V	MDx90-25-223F3

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			90	A
$I_{F(RMS)}$	RMS forward current		150			141	A
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			8	mA
$I_{FSM}$	Surge forward current	10ms half sine wave $V_R=0.6V_{RRM}$	150			2.30	kA
$I^2t$	$I^2t$ for fusing coordination					26	$A^2s \times 10^3$
$V_{FO}$	Threshold voltage		150			0.85	V
$r_F$	Forward slope resistance					1.88	m $\Omega$
$V_{FM}$	Peak forward voltage	$I_{FM}=270A$	25			1.43	V
$R_{th(j-c)}$	Thermal resistance Junction to case	At 180° sine Single side cooled per chip				0.45	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	At 180° sine Single side cooled per chip				0.20	$^{\circ}C/W$
$V_{iso}$	Isolation voltage	50Hz, R.M.S, $t=1min, I_{iso}:1mA(max)$			3000		V
$F_m$	Terminal connection torque(M5)					4.0	N·m
	Mounting torque(M6)					6.0	N·m
$T_{stg}$	Stored temperature				-40	125	$^{\circ}C$
$W_t$	Weight					170	g
<b>Outline</b>	223F3						

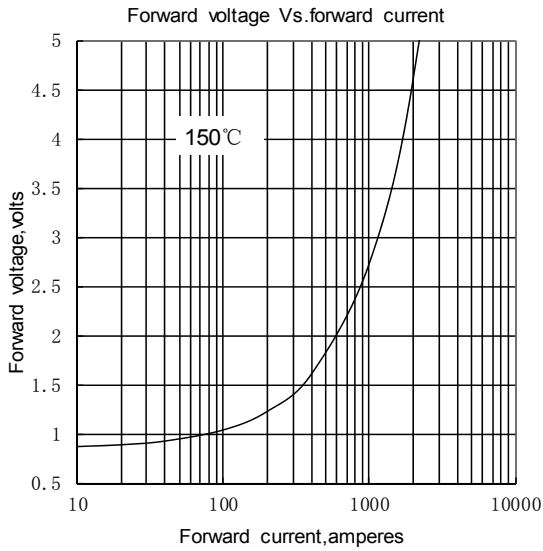


Fig.1

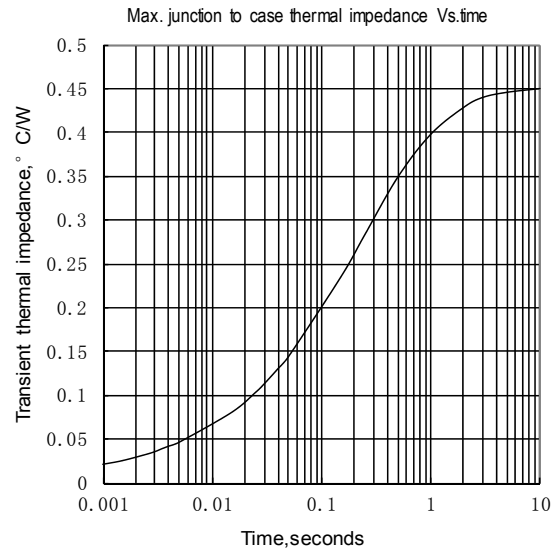


Fig.2

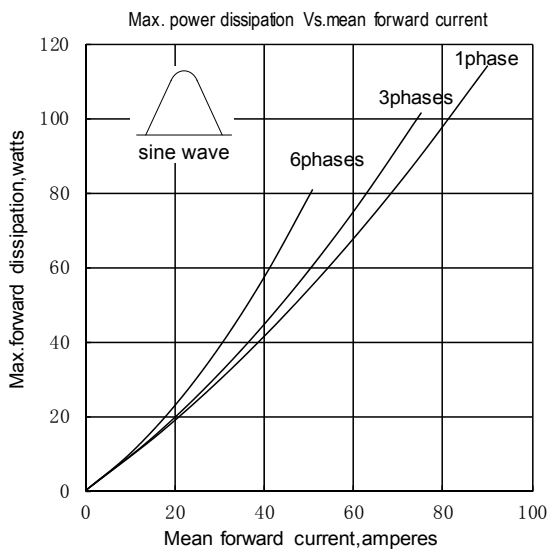


Fig.3

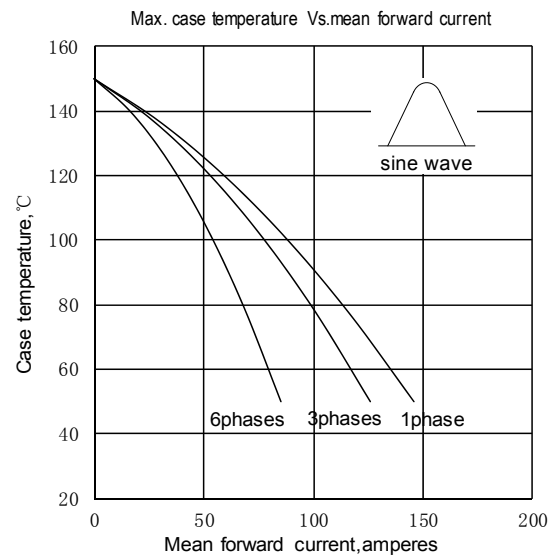


Fig.4

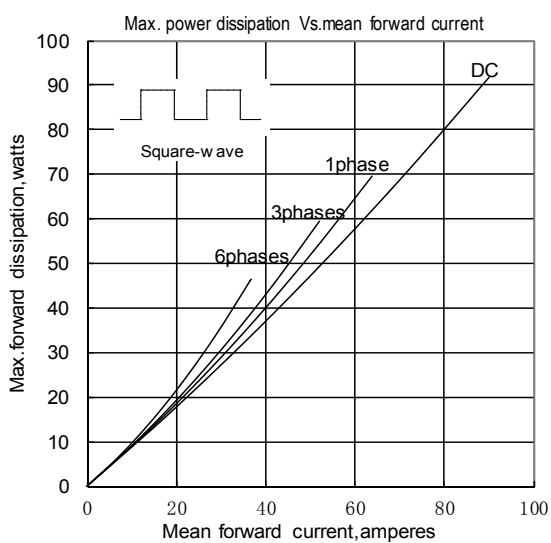


Fig.5

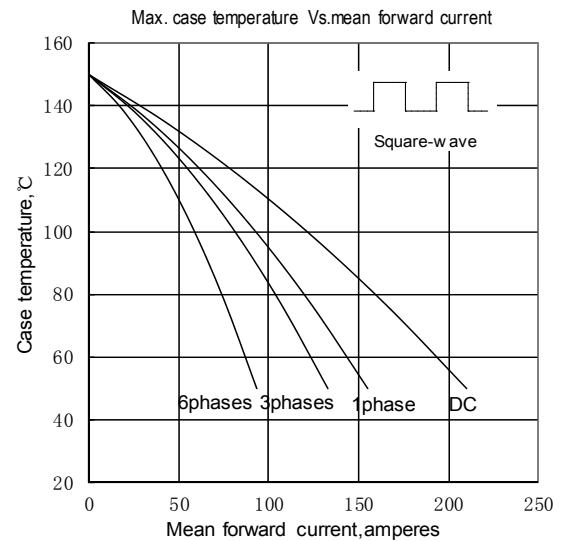


Fig.6

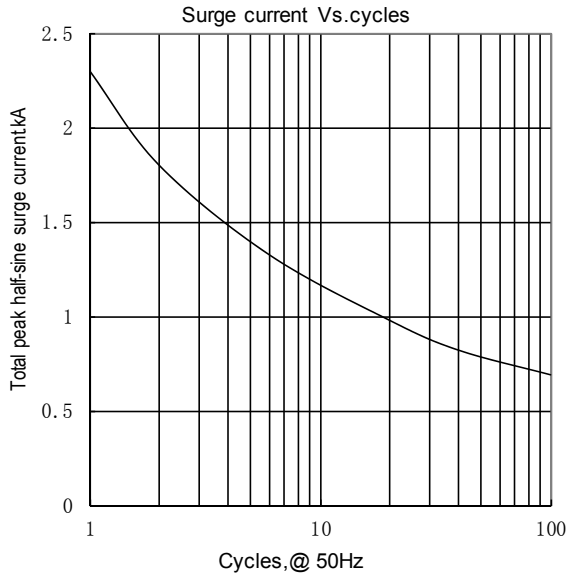


Fig.7

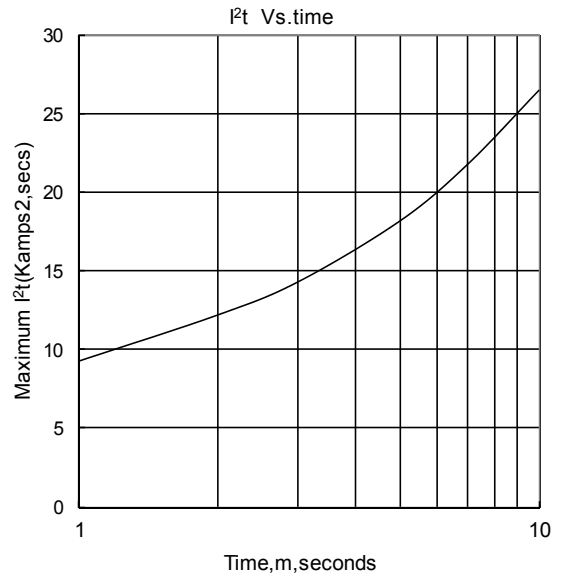


Fig.8

Outline:

