

**Features :**

- Non-Isolated. Mounting base as anode or cathode terminal
- Pressure contact technology with Increased power cycling capability
- Low forward voltage drop

**Typical Applications**

- Welding Power Supply
- Various DC Power supplies
- DC supply for PWM inverter

$V_{RSM}$	$V_{RRM}$	Type
900V	800V	Mx300D80N*
1100V	1000V	Mx300D100N*
1300V	1200V	Mx300D120N*
1500V	1400V	Mx300D140N*
1700V	1600V	Mx300D160N*
1900V	1800V	Mx300D180N*

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			300	A
$I_{F(RMS)}$	RMS forward current		150			471	A
$I_{RRM}$	Repetitive peak current	at $V_{RRM}$	150			10	mA
$I_{FSM}$	Surge forward current	10ms half sine wave $V_R=0.6V_{RRM}$	150			10	KA
$I^2t$	$I^2t$ for fusing coordination					500	$\text{A}^2\text{s}\cdot 10^3$
$V_{FO}$	Threshold voltage		150			0.80	V
$r_F$	Forward slop resistance					0.64	mΩ
$V_{FM}$	Peak forward voltage	$I_{FM}=900\text{A}$	25			1.50	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled				0.130	°C/W
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled				0.04	°C/W
$F_m$	Terminal connection torque(M8)				12.0		N·m
	Mounting torque(M6)				6.0		N·m
$T_{stg}$	Stored temperature			-40		125	°C
$W_t$	Weight				590		g
Outline	M11						

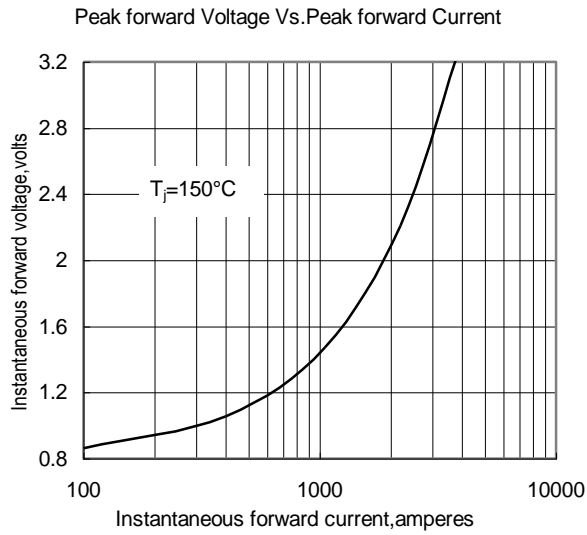


Fig.1

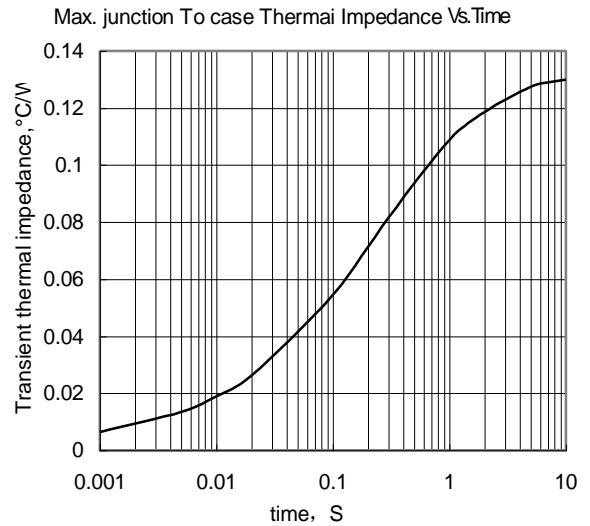


Fig.2

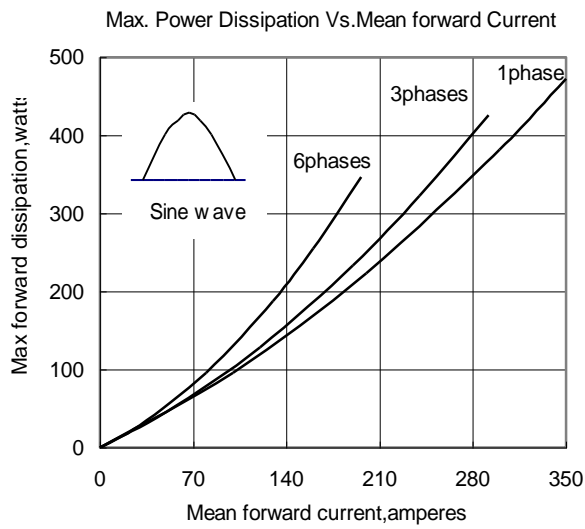


Fig.3

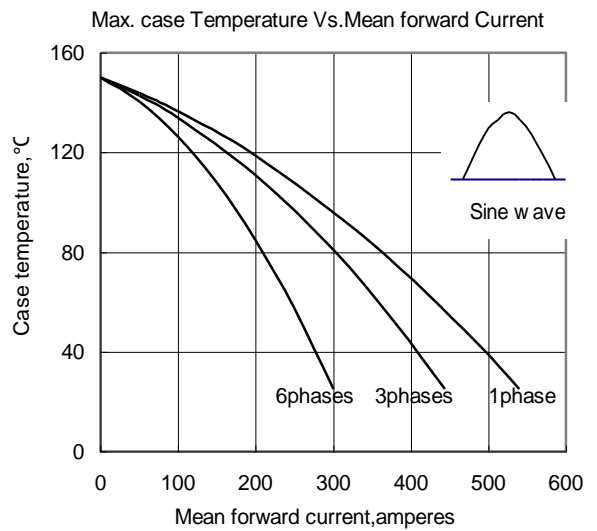


Fig.4

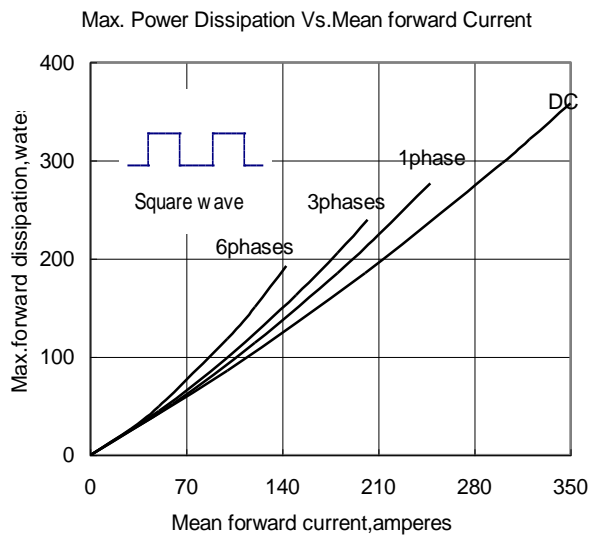


Fig.5

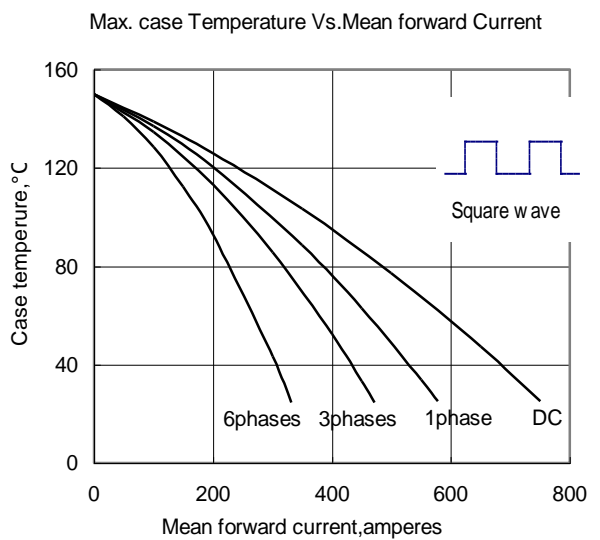


Fig.6

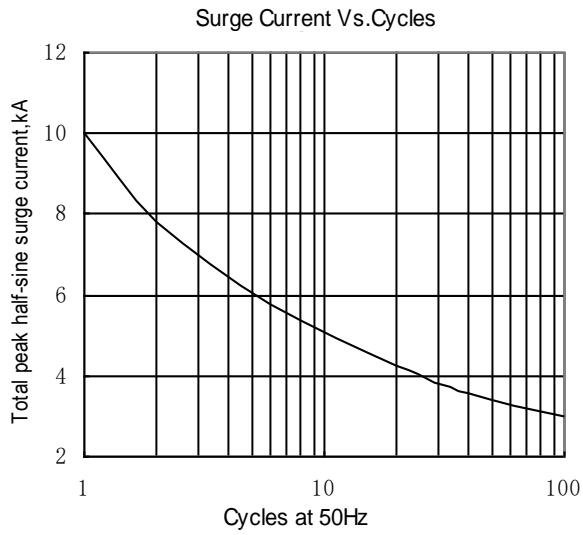


Fig.7

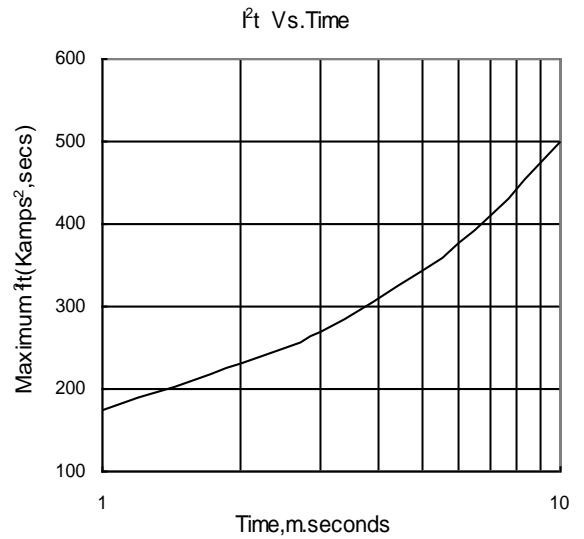
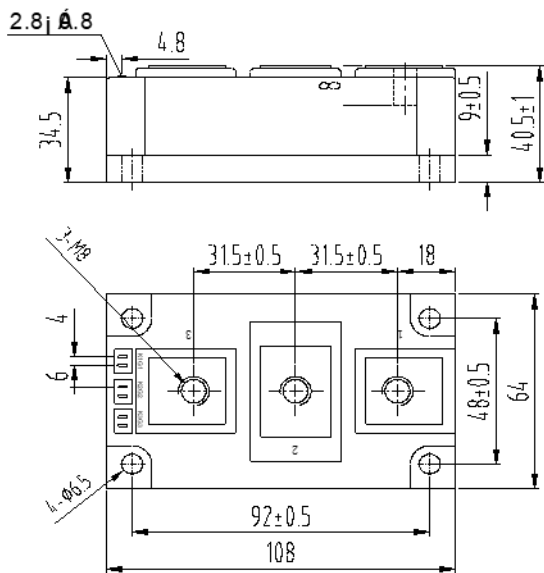
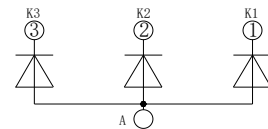


Fig.8

Outline:



ME300D\*NK



MF300D\*NA

