

**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 <sub>RSM</sub>	V <sub>RRM</sub>	Type
900V	800V	Mx100D80N*
1100V	1000V	Mx100D100N*
1300V	1200V	Mx100D120N*
1500V	1400V	Mx100D140N*
1700V	1600V	Mx100D160N*
1900V	1800V	Mx100D180N*

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T <sub>j</sub> (°C)	VALUE			UNIT
				Min	Type	Max	
I <sub>F(AV)</sub>	Mean forward current	180° half sine wave 50Hz Single side cooled, T <sub>C</sub> =100°C	150			100	A
I <sub>F(RMS)</sub>	RMS forward current		150			157	A
I <sub>RRM</sub>	Repetitive peak current	at V <sub>RRM</sub>	150			6	mA
I <sub>FSM</sub>	Surge forward current	10ms half sine wave V <sub>R</sub> =0.6V <sub>RRM</sub>	150			2.8	KA
I <sup>2</sup> t	I <sup>2</sup> t for fusing coordination					39	A <sup>2</sup> s*10 <sup>3</sup>
V <sub>FO</sub>	Threshold voltage		150			0.80	V
r <sub>F</sub>	Forward slope resistance					2.13	mΩ
V <sub>FM</sub>	Peak forward voltage	I <sub>FM</sub> =300A	25			1.57	V
R <sub>th(j-c)</sub>	Thermal resistance Junction to case	Single side cooled				0.380	°C/W
R <sub>th(c-h)</sub>	Thermal resistance case to heatsink	Single side cooled				0.100	°C/W
F <sub>m</sub>	Terminal connection torque(M6)				6.0		N·m
	Mounting torque(M6)				6.0		N·m
T <sub>stg</sub>	Stored temperature			-40		125	°C
W <sub>t</sub>	Weight				280		g
Outline	M10						

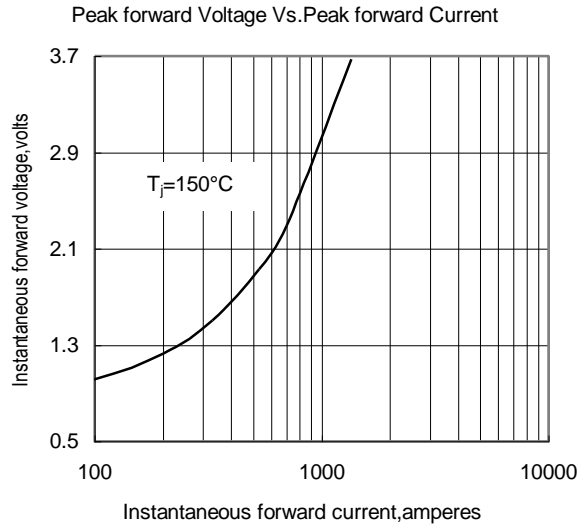


Fig.1

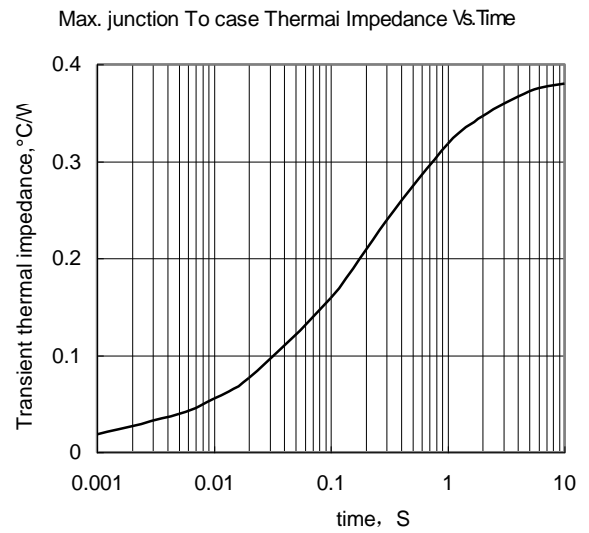


Fig.2

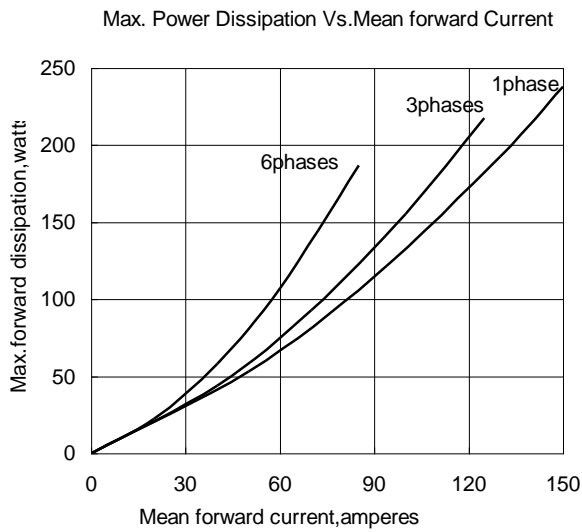


Fig.3

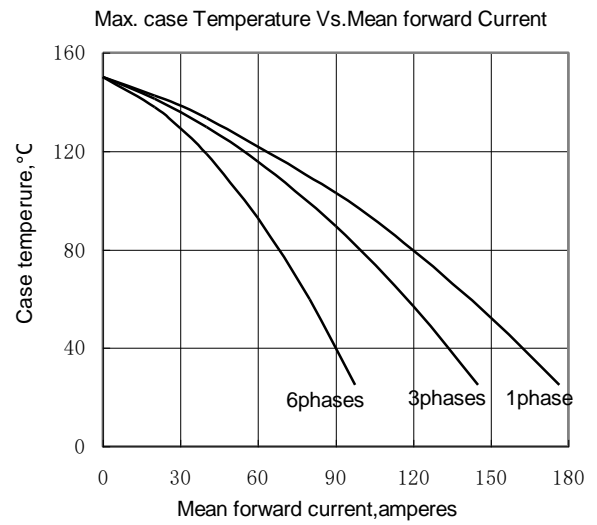


Fig.4

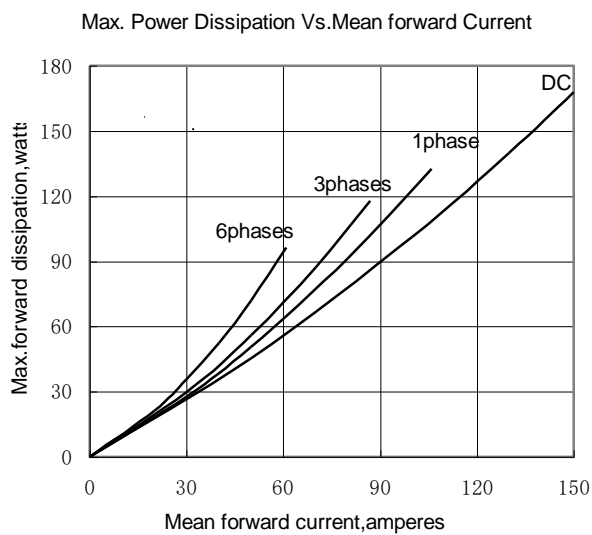


Fig.5

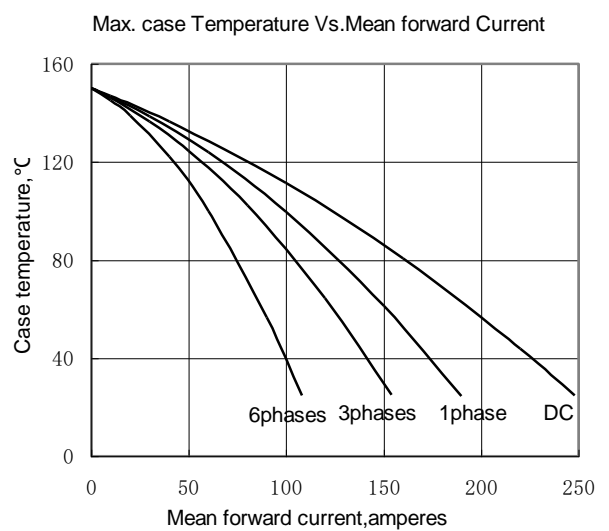


Fig.6

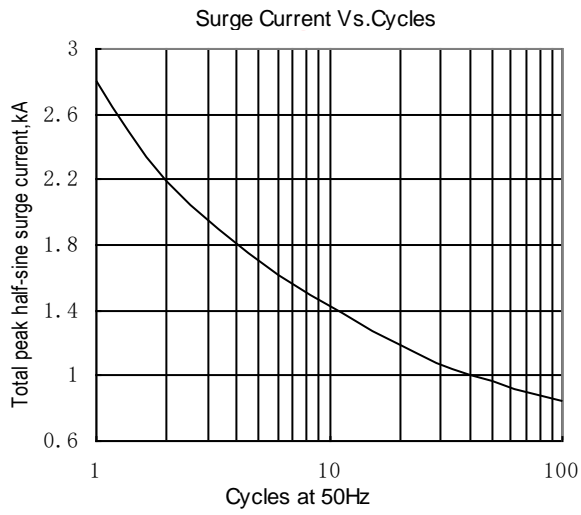


Fig.7

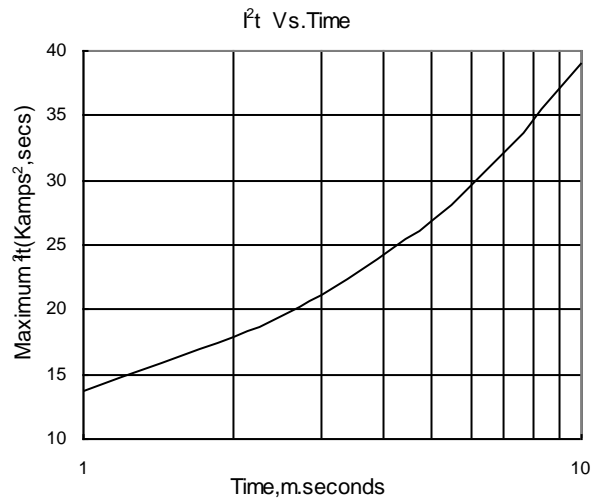
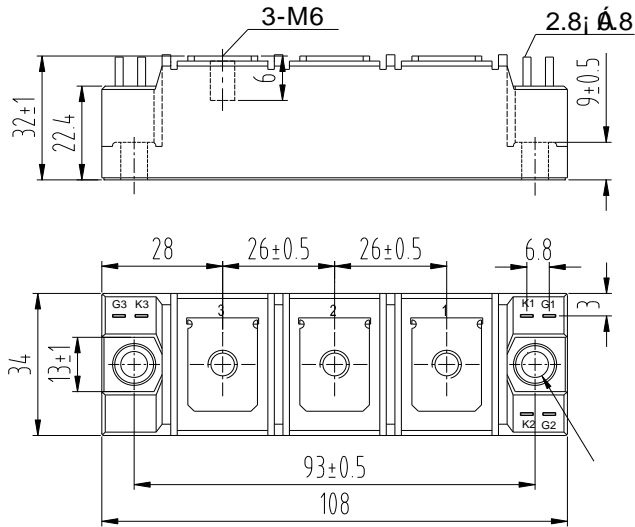
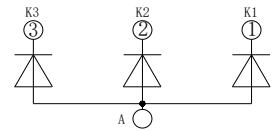


Fig.8

Outline:



ME100D\*NK



MF100D\*NA

