

**Features :**

- Isolated mounting base 2500V~
- Solder joint technology with Increased power cycling capability
- Space and weight savings

**Typical Applications**

- DC Power supplies for equipment.
- DC supply for PWM inverter
- Inverter Welder

V <sub>RSM</sub>	V <sub>RRM</sub>	Type
900V	800V	MB100D80xS
1100V	1000V	MB100D100xS
1300V	1200V	MB100D120xS
1500V	1400V	MB100D140xS
1700V	1600V	MB100D160xS
1900V	1800V	MB100D180xS

SYMBOL	CHARACTERISTIC		TEST CONDITIONS	T <sub>j</sub> (°C)	VALUE			UNIT
					Min	Type	Max	
I <sub>o</sub>	DC output current		Single-phase full wave rectifying circuit, T <sub>c</sub> =100°C	150			100	A
I <sub>RRM</sub>	Repetitive peak current		at V <sub>RRM</sub>	150			12	mA
I <sub>FSM</sub>	Surge forward current		10ms half sine wave	150			1.30	kA
I <sup>2</sup> t	I <sup>2</sup> T for fusing coordination		V <sub>R</sub> =0				8.45	A <sup>2</sup> s*10 <sup>3</sup>
V <sub>FO</sub>	Threshold voltage			150			0.75	V
r <sub>F</sub>	Forward slop resistance						2.4	mΩ
V <sub>FM</sub>	Peak forward voltage		I <sub>FM</sub> =150A	25			1.40	V
R <sub>th(j-c)</sub>	Thermal resistance Junction to case		Single side cooled, per total				0.14	°C /W
R <sub>th(c-h)</sub>	Thermal resistance case to heatsink		Single side cooled, per total				0.07	°C /W
V <sub>iso</sub>	Isolation voltage		50Hz,R.M.S,t=1min,I <sub>iso</sub> :1mA(max)		2500			V
F <sub>m</sub>	Terminal connection torque	(M5)	MB100D*S				4.0	N.m
		(M6)	MB100D*CS,MB100D*C2S				6.0	
	Mounting torque	(M5)	MB100D*C2S				4.0	N.m
		(M6)	MB100D*S,MB100D*CS				6.0	
T <sub>stg</sub>	Stored temperature				-40		125	°C
W <sub>t</sub>	Weight		MB100D*S				235	g
			MB100D*CS				200	
			MB100D*C2S				310	
Outline	M26,M30,M28							

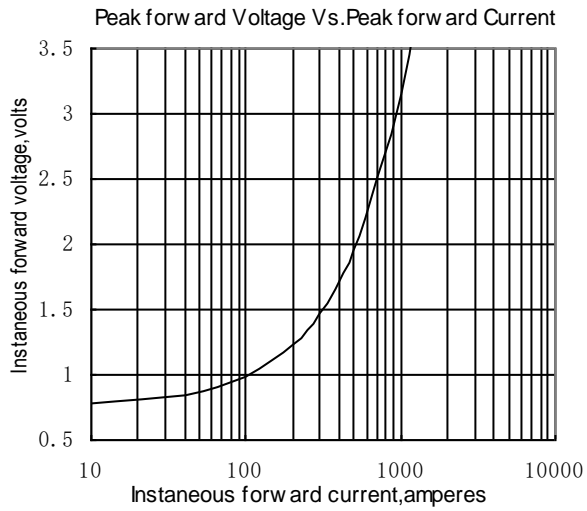


Fig.1

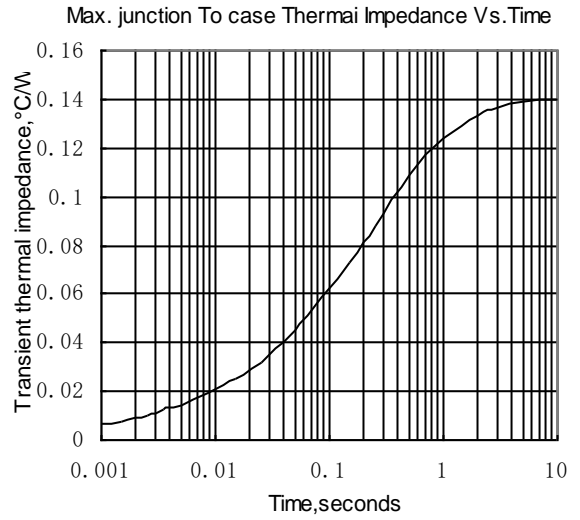


Fig.2

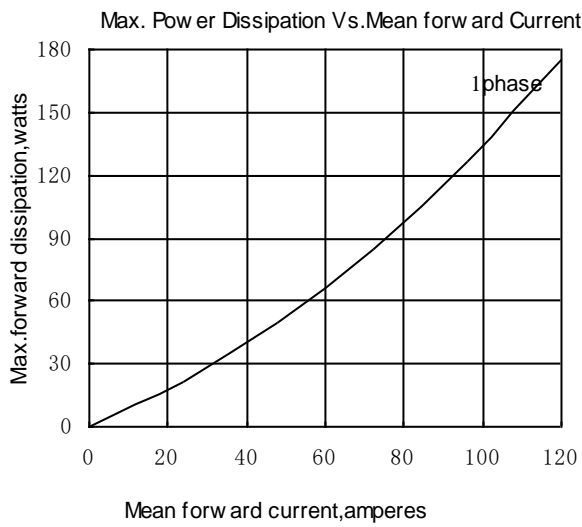


Fig.3

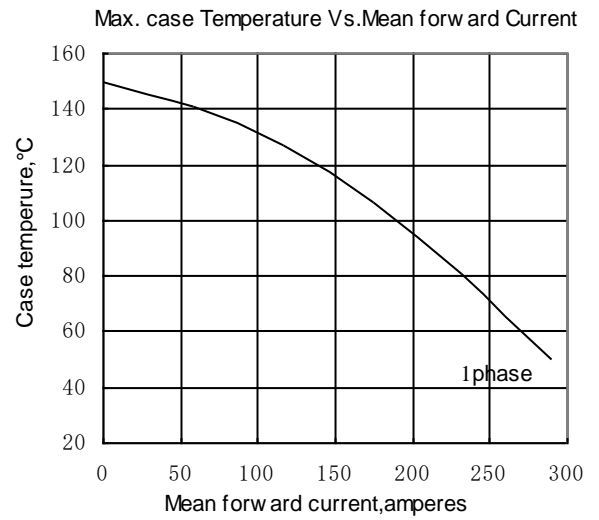


Fig.4

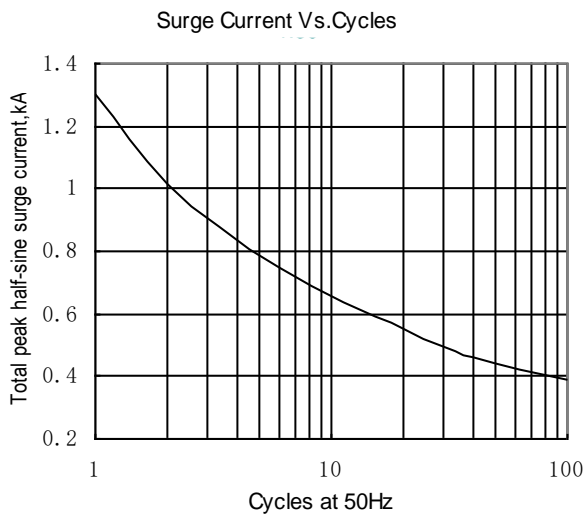


Fig.5

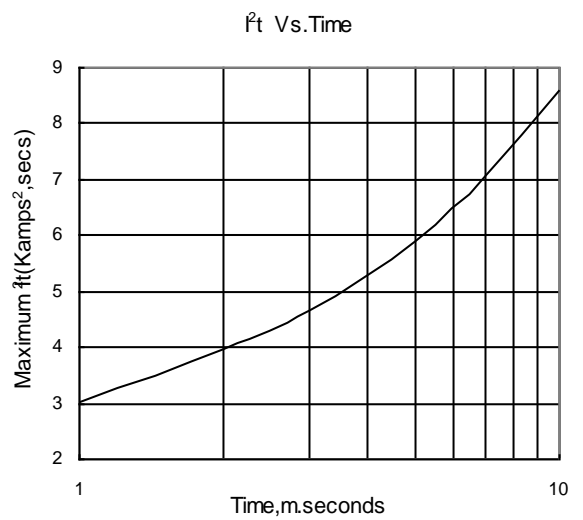
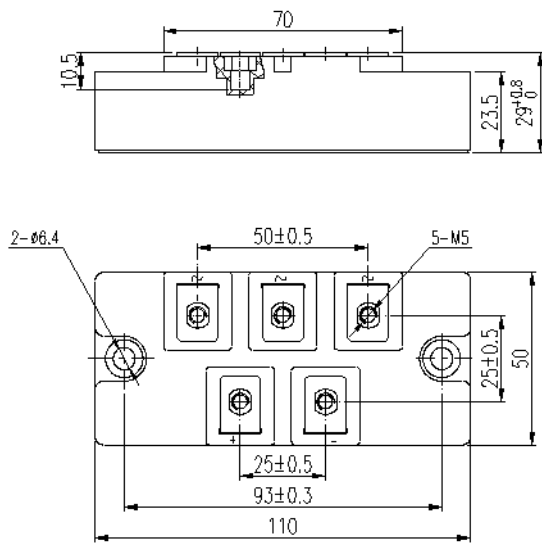


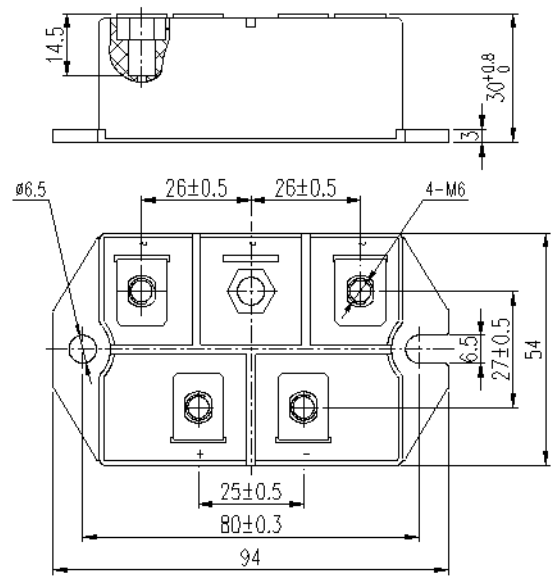
Fig.6

Outline:

MB100D\*S



MB100D\*CS



MB100D\*C2S

