

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_{RSM}	V_{RRM}	Type & Outline
900V	800V	MT100D80xS
1100V	1000V	MT100D100xS
1300V	1200V	MT100D120xS
1500V	1400V	MT100D140xS
1700V	1600V	MT100D160xS
1900V	1800V	MT100D180xS

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	T_j (°C)	VALUE			UNIT
				Min	Type	Max	
I_O	DC output current	Three-phase full wave rectifying circuit, $T_C=100^\circ\text{C}$	150			100	A
I_{RRM}	Repetitive peak current	at V_{RRM}	150			8	mA
I_{FSM}	Surge forward current	10ms half sine wave $V_R=0$	150			0.6	kA
I^2t	I^2t for fusing coordination					1.8	$\text{A}^2\text{s}\cdot 10^3$
V_{FO}	Threshold voltage		150			0.7	V
r_F	Forward slope resistance					4.5	$\text{m}\Omega$
V_{FM}	Peak forward voltage	$I_{FM}=100\text{A}$	25			1.30	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled, per total				0.20	$^\circ\text{C}/\text{W}$
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled, per total				0.07	$^\circ\text{C}/\text{W}$
V_{iso}	Isolation voltage	50Hz, R.M.S, t=1min, I_{iso} : 1mA(max)		2500			V
F_m	Terminal connection torque(M5)				4.0		N·m
	Mounting torque	(M5)	MT100D*C2S, MT100D*C3S		4.0		N·m
		(M6)	MT100D*S, MT100D*CS		6.0		
T_{stg}	Stored temperature			-40		125	$^\circ\text{C}$
W_t	Weight	MT100D*S, MT100D*CS, MT100D*C2S			150		g
		MT100D*C3S			135		
Outline	M20, M22, M24, M18						

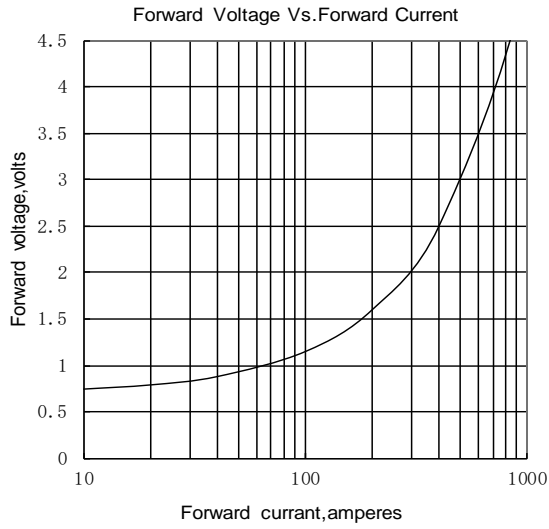


Fig.1

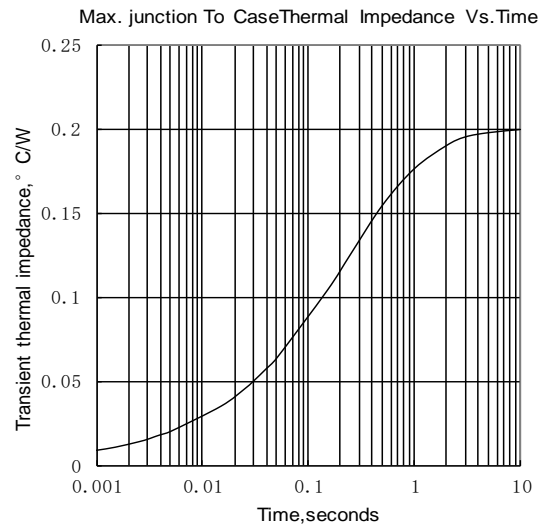


Fig.2

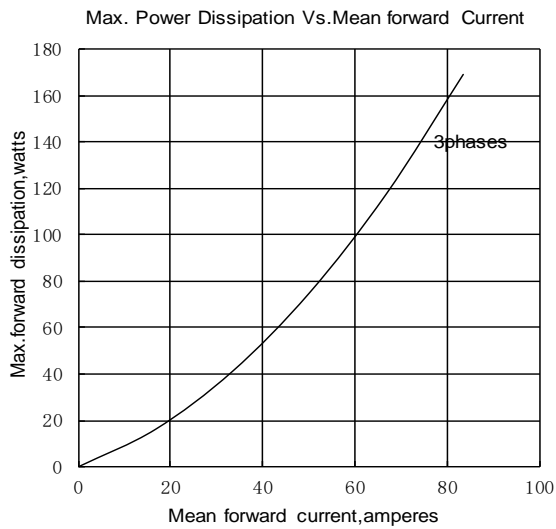


Fig.3

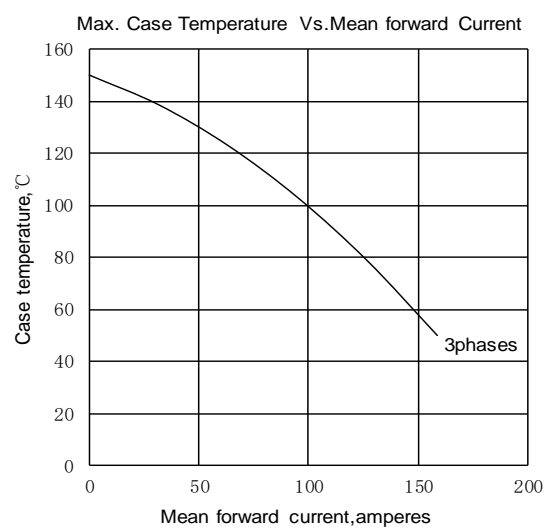


Fig.4

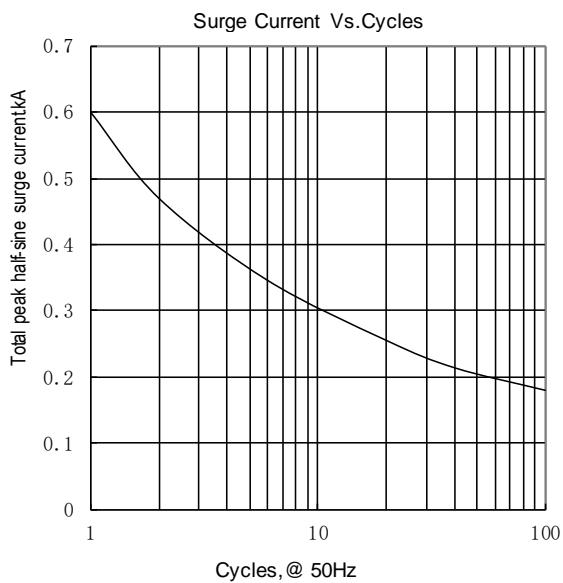


Fig.5

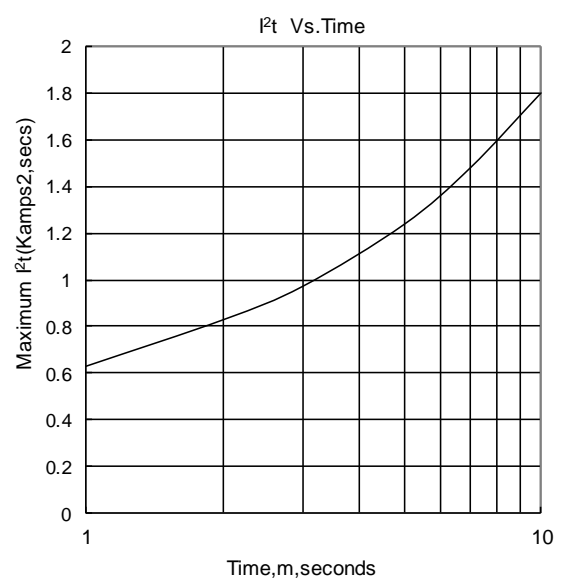
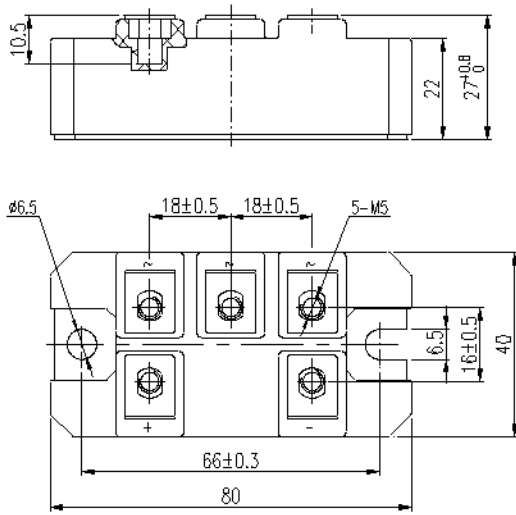


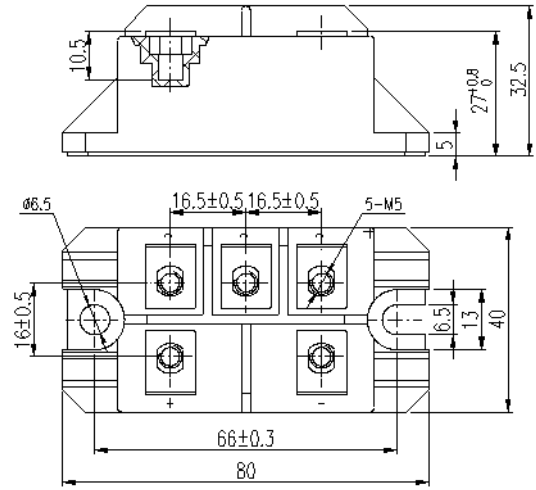
Fig.6

Outline:

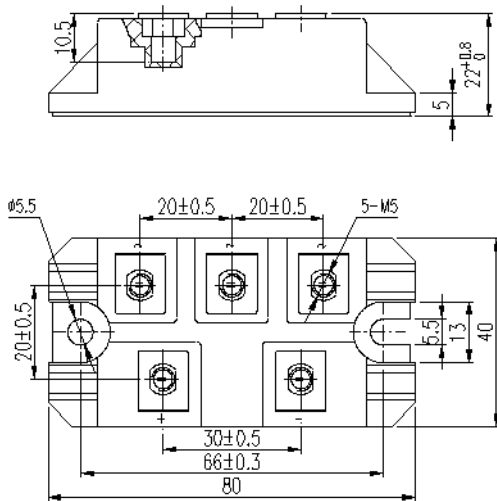
MT100D*S



MT100D*CS



MT100D*C2S



MT100D*C3S

