

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
900V	800V	MT50D80xS
1100V	1000V	MT50D100xS
1300V	1200V	MT50D120xS
1500V	1400V	MT50D140xS
1700V	1600V	MT50D160xS
1900V	1800V	MT50D180xS

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}C)$	VALUE			UNIT
				Min	Type	Max	
I_O	DC output current	Three-phase full wave rectifying circuit, $T_C=100^{\circ}C$	150			50	A
I_{RRM}	Repetitive peak current	at V_{RRM}	150			8	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			0.4	kA
I^2t	I^2t for fusing coordination	$V_R=0$				0.80	$A^2s \cdot 10^3$
V_{FO}	Threshold voltage		150			0.7	V
r_F	Forward slope resistance					6.0	$m\Omega$
V_{FM}	Peak forward voltage	$I_{FM}=50A$	25			1.20	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled, per total				0.30	$^{\circ}C/W$
$R_{th(c-h)}$	Thermal resistance case to heatsink	Single side cooled, per total				0.07	$^{\circ}C/W$
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)	MT50D*C2S, MT50D*C3S		4.0		N·m
		(M6)	MT50D*S, MT50D*CS		5.0		
T_{stg}	Stored temperature			-40		125	$^{\circ}C$
W_t	Weight	MT50D*S, MT50D*CS, MT50D*C2S			150		g
		MT50D*C3S			135		
Outline	M20, M22, M24, M18						

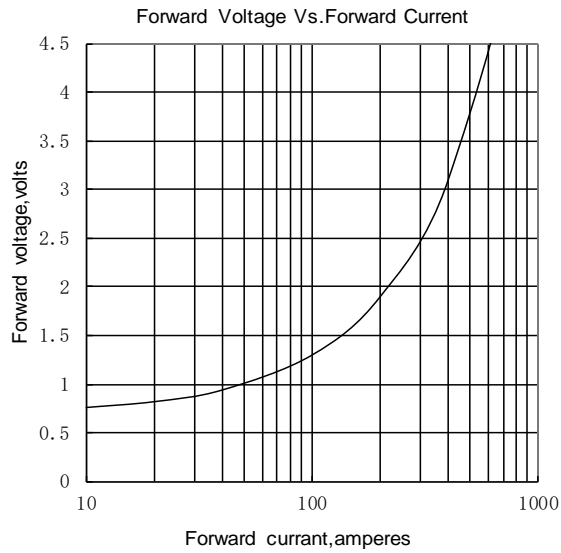


Fig.1

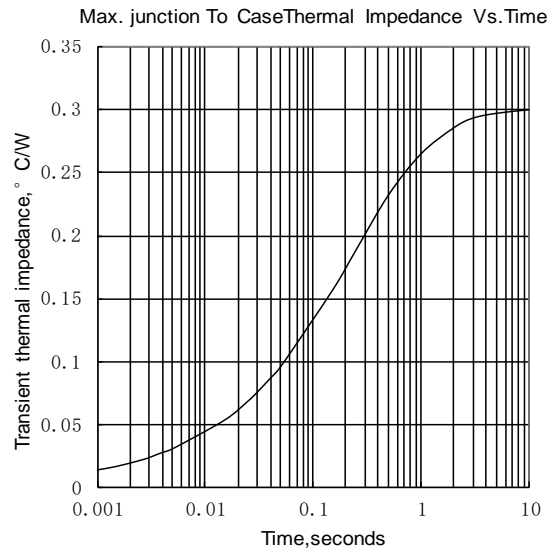


Fig.2

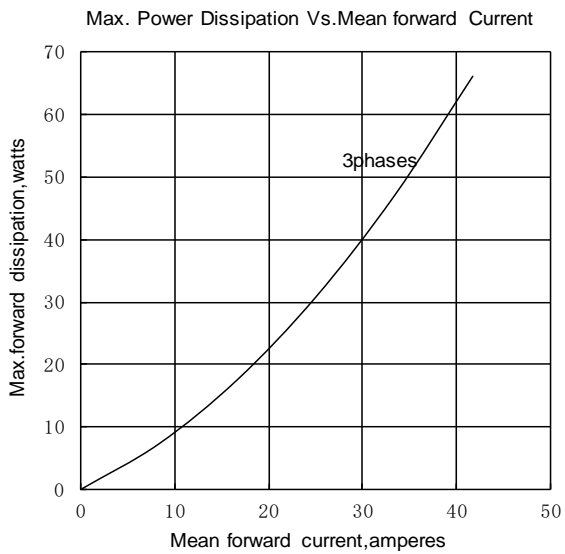


Fig.3

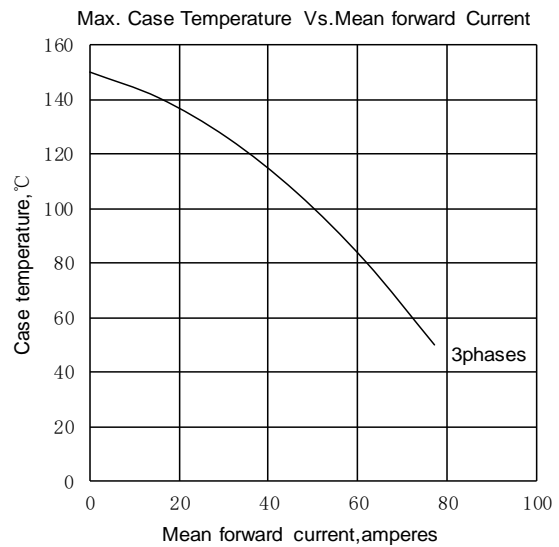


Fig.4

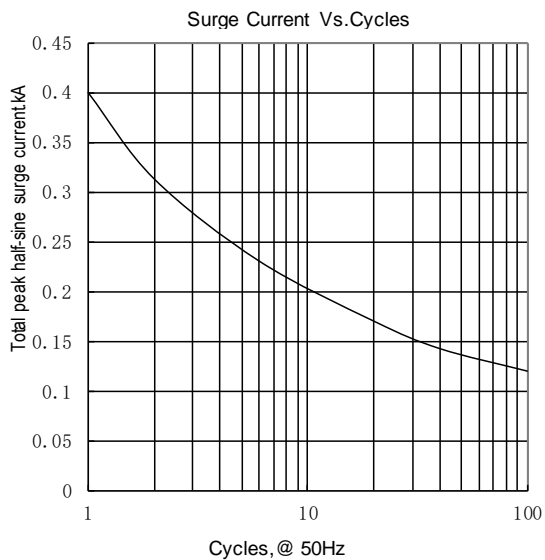


Fig.5

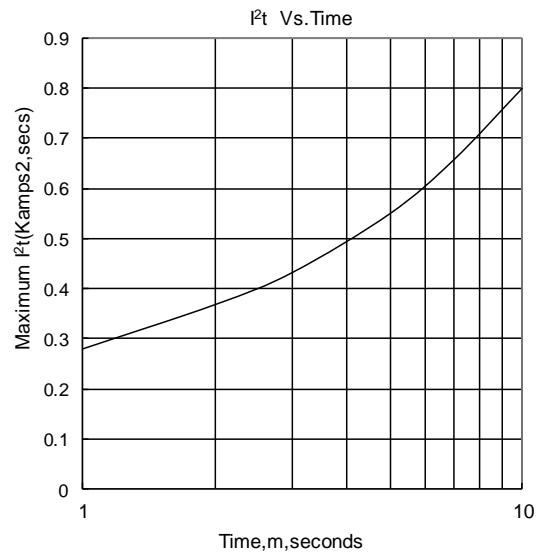
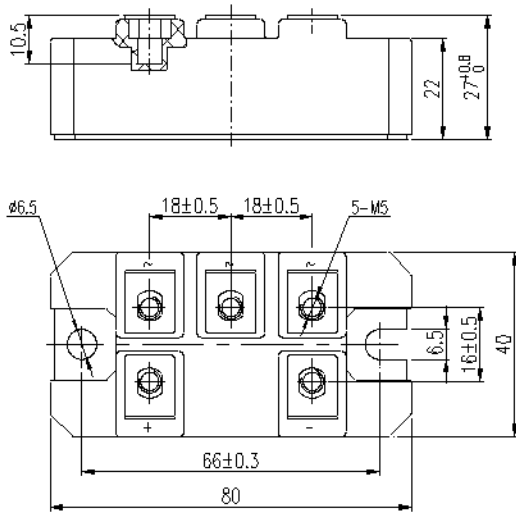


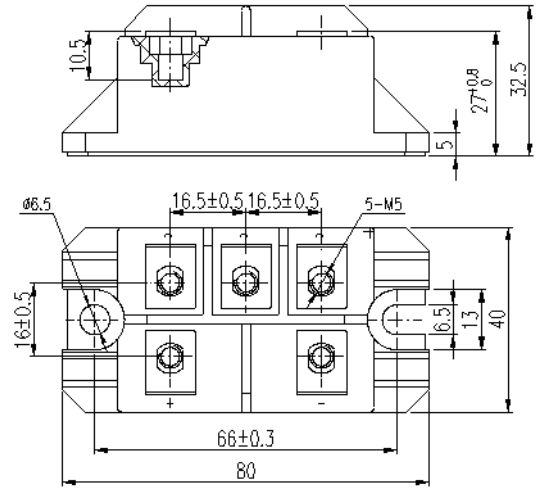
Fig.6

Outline:

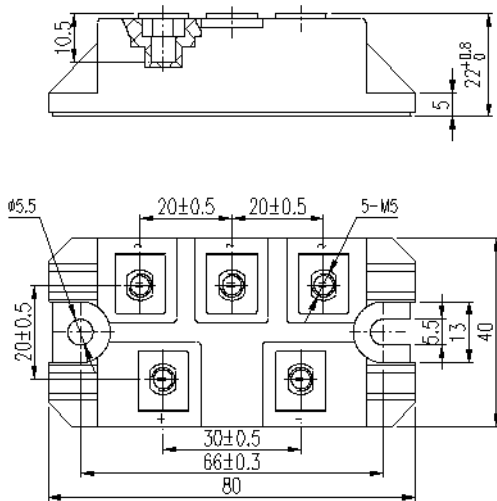
MT50D*S



MT50D*CS



MT50D*C2S



MT50D*C3S

