

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	MT75D80xS
1100V	1000V	MT75D100xS
1300V	1200V	MTS75D120xS
1500V	1400V	MT75D140xS
1700V	1600V	MT75D160xS
1900V	1800V	MT75D180xS

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	$T_j(^{\circ}\text{C})$	VALUE			UNIT
				Min	Type	Max	
I_o	DC output current	Three-phase full wave rectifying circuit, $T_C=100^{\circ}\text{C}$	150			75	A
I_{RRM}	Repetitive peak current	at V_{RRM}	150			8	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			0.5	kA
I^2t	I^2t for fusing coordination	$V_R=0$				1.25	$\text{A}^2\text{s}\cdot 10^3$
V_{FO}	Threshold voltage		150			0.7	V
r_F	Forward slope resistance					5.0	$\text{m}\Omega$
V_{FM}	Peak forward voltage	$I_{FM}=75\text{A}$	25			1.25	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled, per total				0.24	$^{\circ}\text{C}/\text{W}$
$R_{th(c-h)}$	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)	MT75D*C2S,MT75D*C3S		4.0		N·m
		(M6)	MT75D*S,MT75D*CS		6.0		
T_{stg}	Stored temperature			-40		125	$^{\circ}\text{C}$
W_t	Weight	MT75D*S,MT75D*CS, MT75D*C2S			150		g
		MT75D*C3S			135		
Outline	M20,M22,M24,M18						

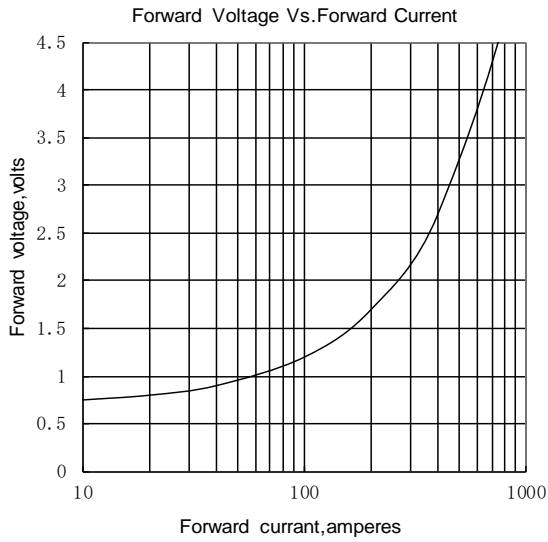


Fig.1

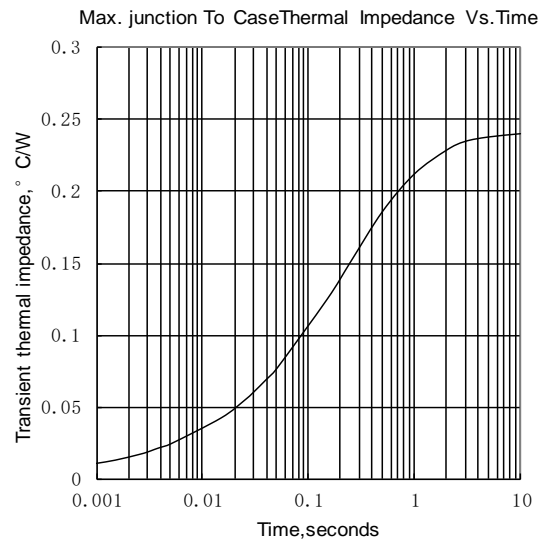


Fig.2

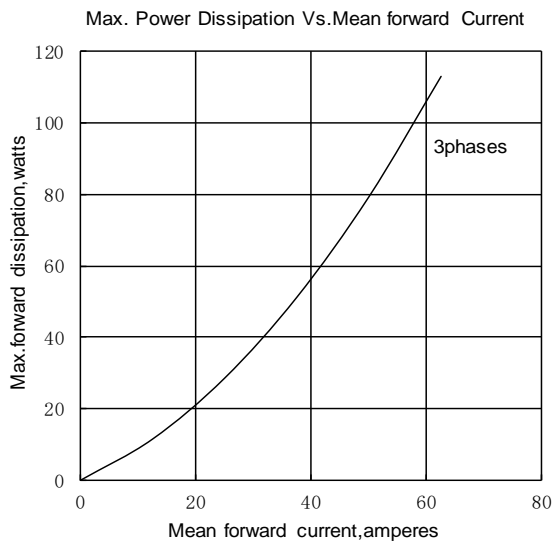


Fig.3

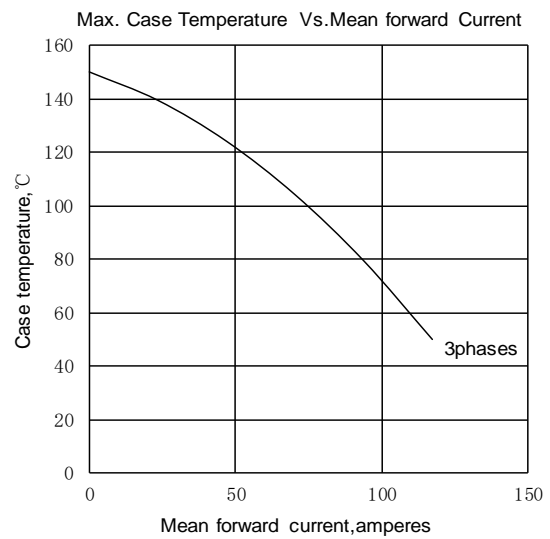


Fig.4

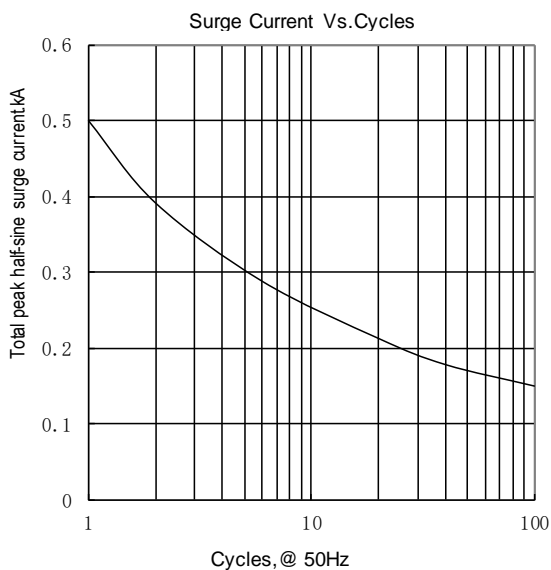


Fig.5

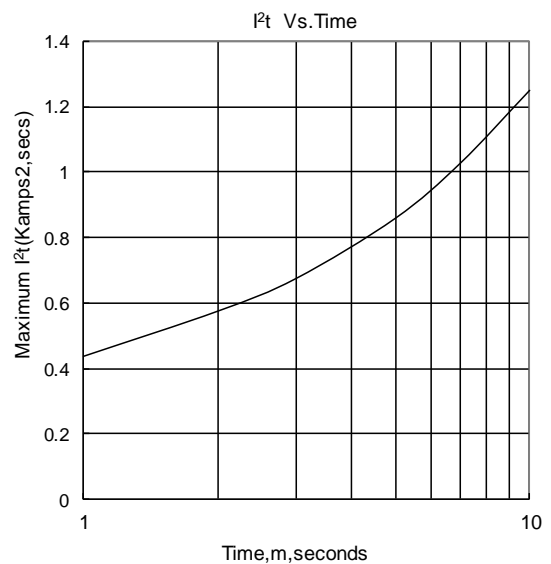
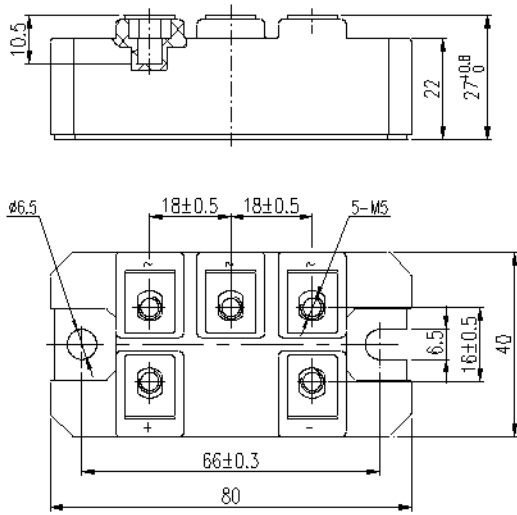


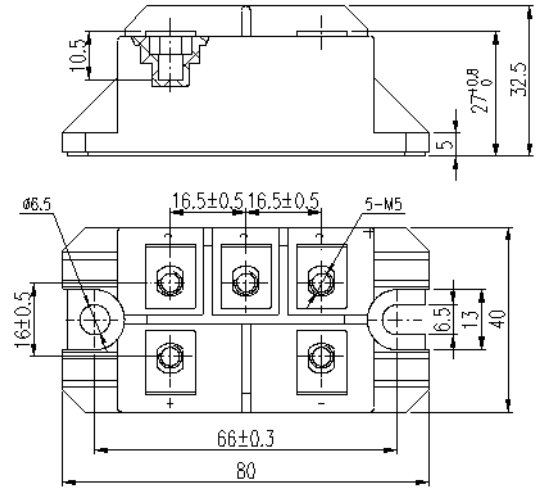
Fig.6

Outline:

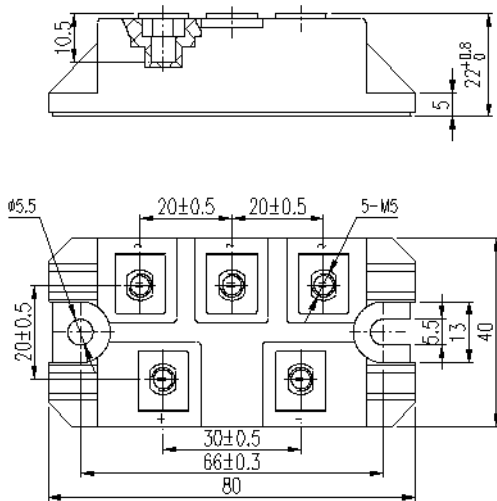
MT75D*S



MT75D*CS



MT75D*C2S



MT75D*C3S

