

Features:

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

Typical Applications

- Inverter
- Inductive heating
- Chopper

V_{RSM}	V_{RRM}	Type & Outline
900V	800V	MT150D80xS
1100V	1000V	MT150D100xS
1300V	1200V	MT150D120xS
1500V	1400V	MT150D140xS
1700V	1600V	MT150D160xS
1900V	1800V	MT150D180xS

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			150	A
I_{RRM}	Repetitive peak current	at V_{RRM}	150			12	mA
I_{FSM}	Surge forward current	10ms half sine wave	150			1.3	kA
I^2t	I^2t for fusing coordination	$V_R=0$				8.45	$\text{A}^2\text{s}\cdot 10^3$
V_{FO}	Threshold voltage		150			0.75	V
r_F	Forward slope resistance					2.4	$\text{m}\Omega$
V_{FM}	Peak forward voltage	$I_{FM}=150\text{A}$	25			1.40	V
$R_{th(j-c)}$	Thermal resistance Junction to case	Single side cooled, per total				0.14	$^{\circ}\text{C}/\text{W}$
$R_{th(c-h)}$	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, $I_{iso}:1\text{mA}(\text{max})$		2500			V
F_m	Terminal connection torque(M6)				6.0		N·m
	Mounting torque(M5)				4.0		N·m
T_{stg}	Stored temperature			-40		125	$^{\circ}\text{C}$
W_t	Weight				330		g
Outline	M26,M30,M28						

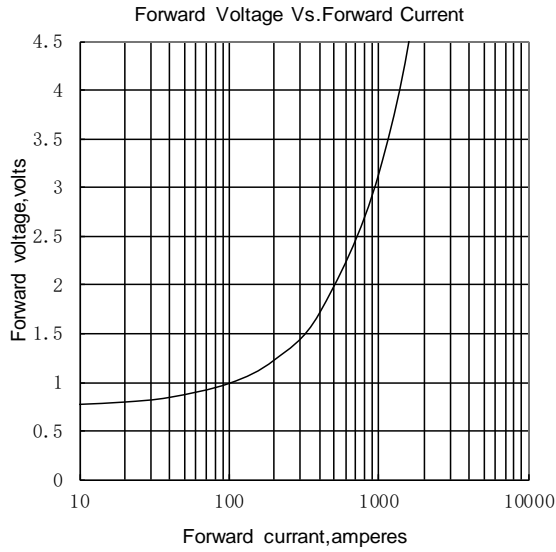


Fig.1

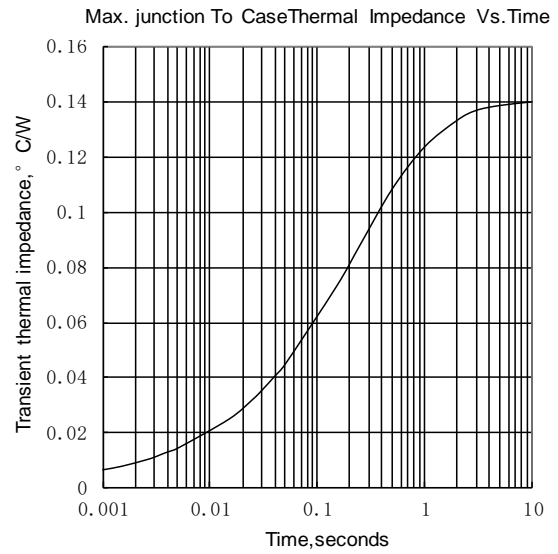


Fig.2

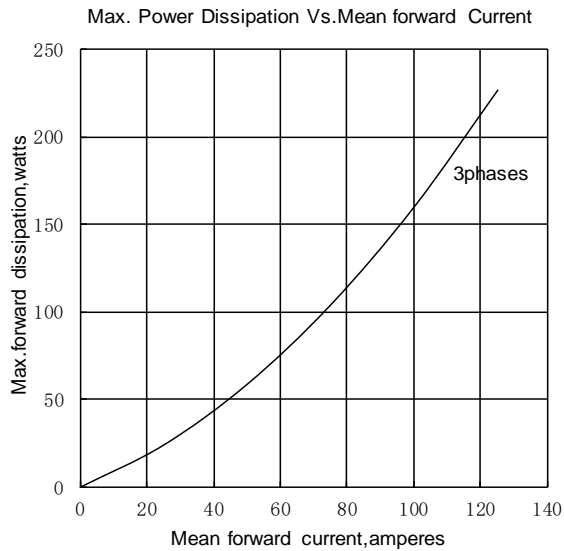


Fig.3

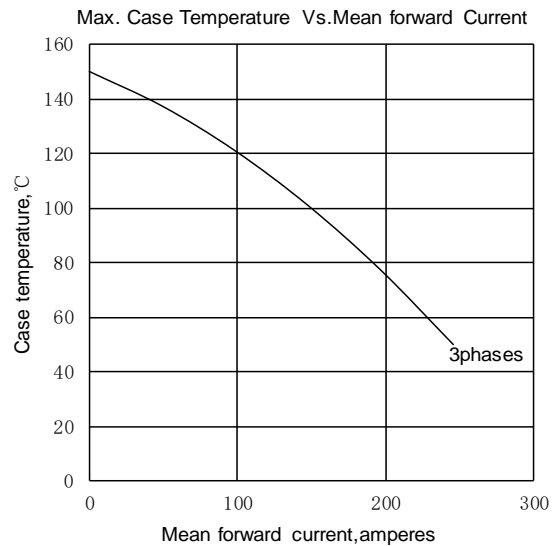


Fig.4

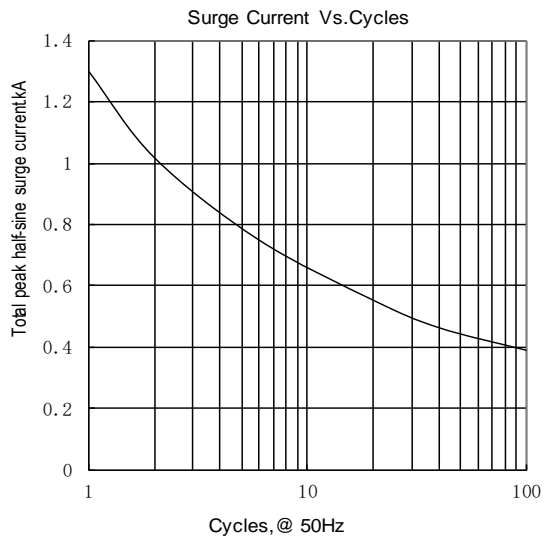


Fig.5

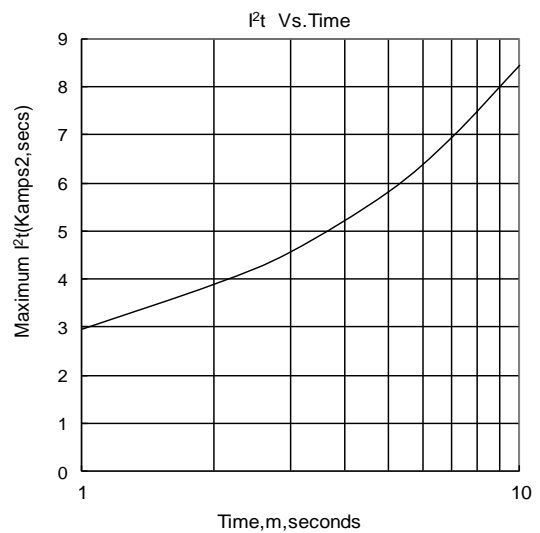
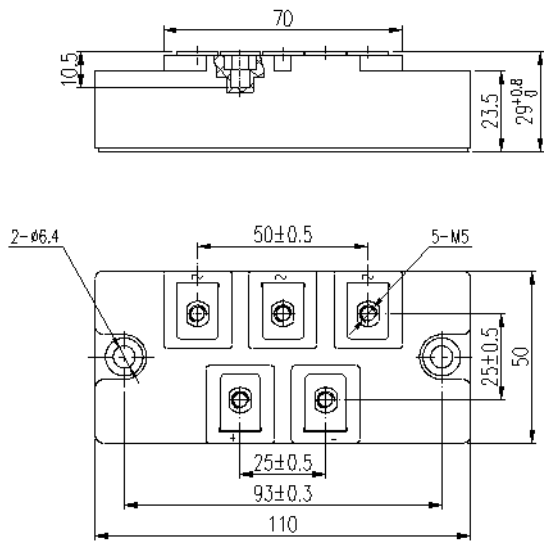


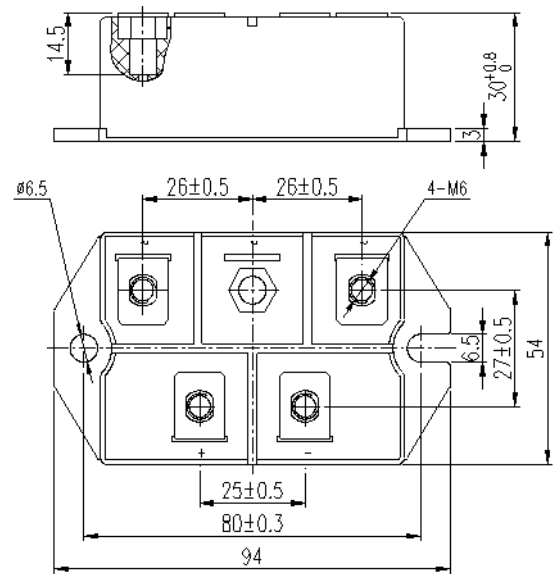
Fig.6

Outline:

MT175D*S



MT175D*CS



MT175D*C2S

