

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	MT175D80xS
1100V	1000V	MT175D100xS
1300V	1200V	MT175D120xS
1500V	1400V	MT175D140xS
1700V	1600V	MT175D160xS
1900V	1800V	MT175D180xS

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			175	A
I_{RRM}	Repetitive peak current		at V_{RRM}	150			12	mA
I_{FSM}	Surge forward current		10ms half sine wave $V_R=0$	150			1.4	kA
I^2t	I^2t for fusing coordination							9.8
V_{FO}	Threshold voltage			150			0.75	V
r_F	Forward slope resistance						2.2	$\text{m}\Omega$
V_{FM}	Peak forward voltage		$I_{FM}=175\text{A}$	25			1.45	V
$R_{th(j-c)}$	Thermal resistance Junction to case		Single side cooled, per total				0.12	$^{\circ}\text{C}/\text{W}$
$R_{th(c-h)}$	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	(M5)	MT175D*S				4.0	N·m
		(M6)	MT175D*CS,MT175D*C2S				6.0	
	Mounting torque	(M5)	MT175D*C2S				4.0	N·m
		(M6)	MT175D*S,MT175D*CS				6.0	
T_{stg}	Stored temperature				-40		125	$^{\circ}\text{C}$
W_t	Weight		MT175D*				250	g
			MT175D*CS				220	
			MT175D*C2S				330	
Outline	M26,M30,M28							

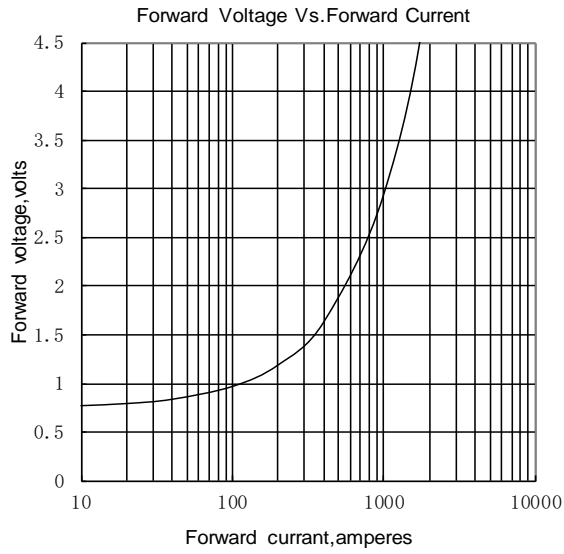


Fig.1

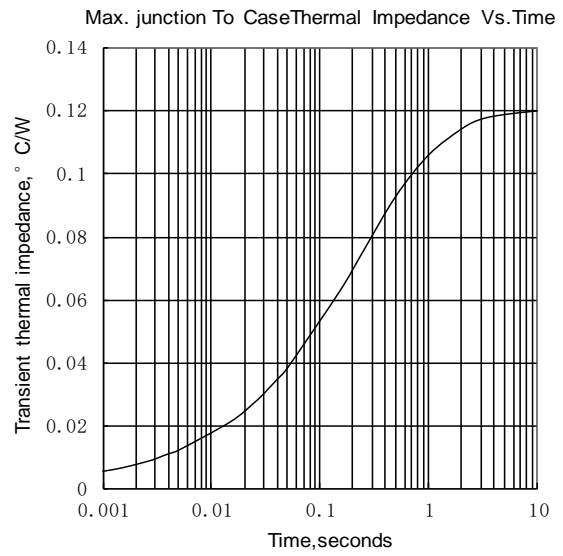


Fig.2

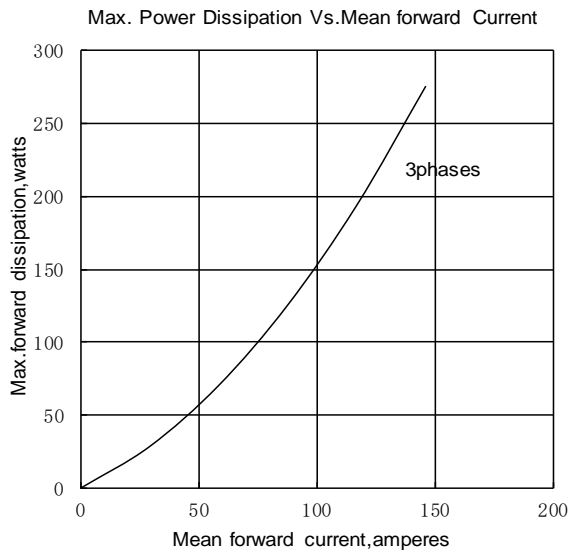


Fig.3

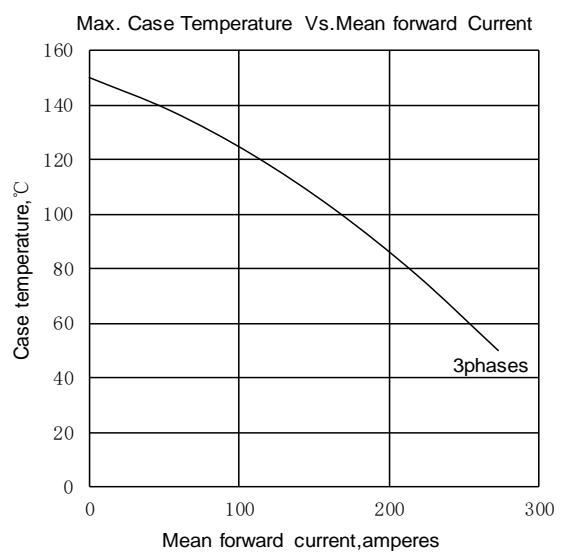


Fig.4

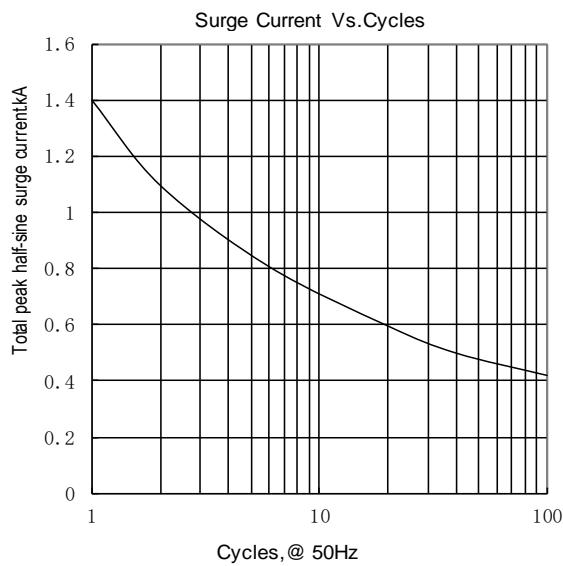


Fig.5

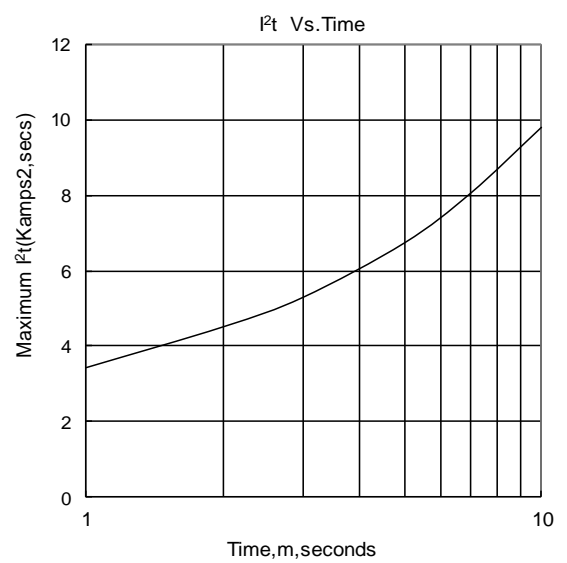
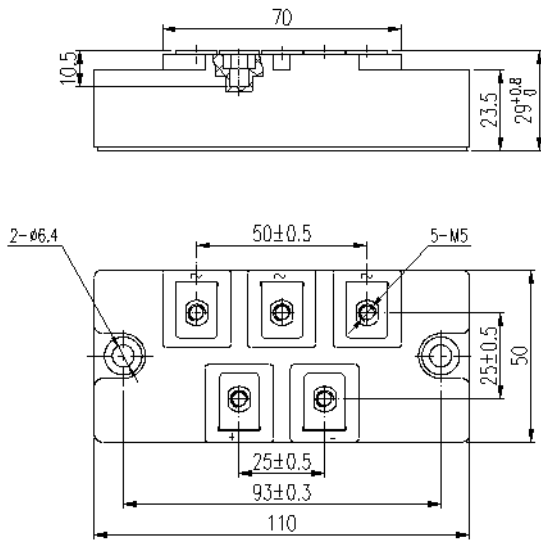


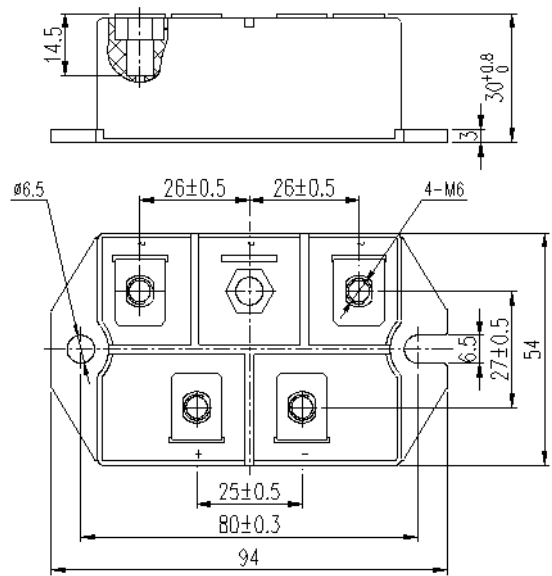
Fig.6

Outline:

MT175D*S



MT175D*CS



MT175D*C2S

