MT570C18T6

Thyristor Modules

VRRM / VDRM	800 to 1800V
ITAV	570A

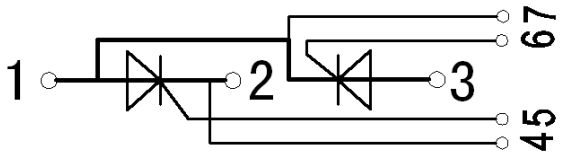
Applications

- Power Converters
- Lighting Control
- DC Motor Control and Drives
- Heat and temperature control

Features

- International standard package
- High Surge Capability
- Simple Mounting

Circuit



Module Type

TYPE	VRRM	VRSM
MT570C08T6	800V	900V
MT570C12T6	1200V	1300V
MT570C16T6	1600V	1700V
MT570C18T6	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
I_{TAV}	Sine 180°;Tc=85℃	570	A
I_{TSM}	T_{VJ}=45℃ t=10ms, sine	18000	A
i^2t	T_{VJ}=45℃ t=10ms, sine	1600000	A^2s
Visol	a.c.50HZ;r.m.s.;1min	2500	V
Tvj		-40 to 125	℃
Tstg		-40 to 125	℃
di/dt	T_{VJ}= T_{VJM} , 2/3V_{DRM} ,I_G =500mA Tr<0.5us,tp>6us	150	A/us
dv/dt	T_J= T_{VJM} ,2/3V_{DRM}, linear voltage rise	1000	V/us
Weight	Module(Approximately)	1500	g

Thermal Characteristics

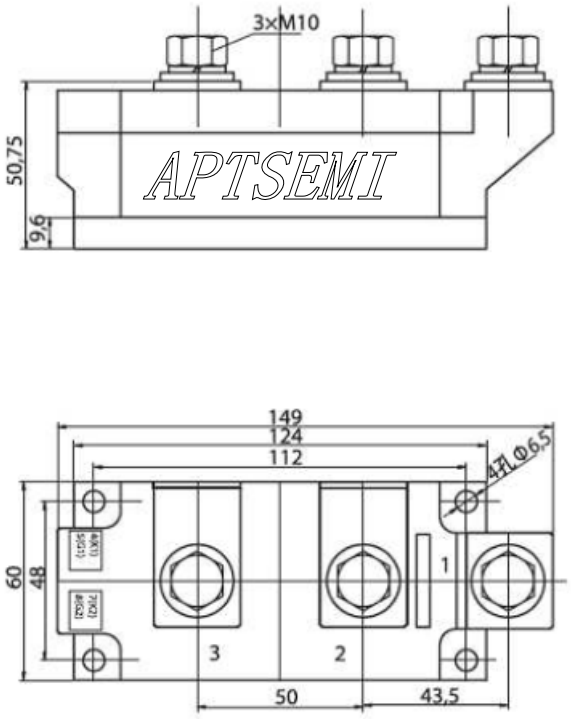
Symbol	Conditions	Values	Units
Rth(j-c)	Cont.;per module	0.035	℃/W
Rth(c-s)	per module	0.01	℃/W

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
V_{TM}	T=25℃ I_{TM} =1700A			1.55	V
I_{RRM}/I_{DRM}	T_{VJ} =T_{VJM} ,V_R=V_{RRM} ,V_D=V_{DRM}			30	mA
P_{GM}			12		W
I_{GM}			3		A
V_{GT}	T_{VJ} =25℃ , V_D =6V			2	V
I_{GT}	T_{VJ} =25℃ , V_D =6V			150	mA
I_L	T_{VJ} =25℃ , R_G = 33 Ω		300	2000	mA
I_H	T_{VJ} =25℃ , V_D =6V		150	500	mA

Package Outline Information

CASE: T6



Dimensions in mm