



## Thyristor Modules

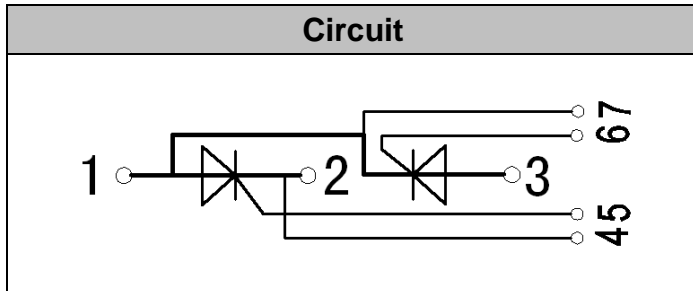
**VRRM / VDRM** 800 to 1800V  
**ITAV** 570A

### Applications

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

### Features

- International standard package
- High Surge Capability
- Simple Mounting



### 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°; $T_c=85^\circ\text{C}$	570	A
$I_{TSM}$	$T_{VJ}=45^\circ\text{C}$ t=10ms, sine	18000	A
$i^2t$	$T_{VJ}=45^\circ\text{C}$ t=10ms, sine	1600000	A <sup>2</sup> s
Visol	a.c.50HZ;r.m.s.;1min	2500	V
Tvj		-40 to 125	°C
Tstg		-40 to 125	°C
di/dt	$T_{VJ}=T_{VJM}$ , $2/3V_{DRM}$ , $I_G=500\text{mA}$ $Tr<0.5\mu\text{s}$ , $tp>6\mu\text{s}$	150	A/ $\mu\text{s}$
dv/dt	$T_J=T_{VJM}$ , $2/3V_{DRM}$ , linear voltage rise	1000	V/ $\mu\text{s}$
Weight	Module(Approximately)	1500	g

### Thermal Characteristics

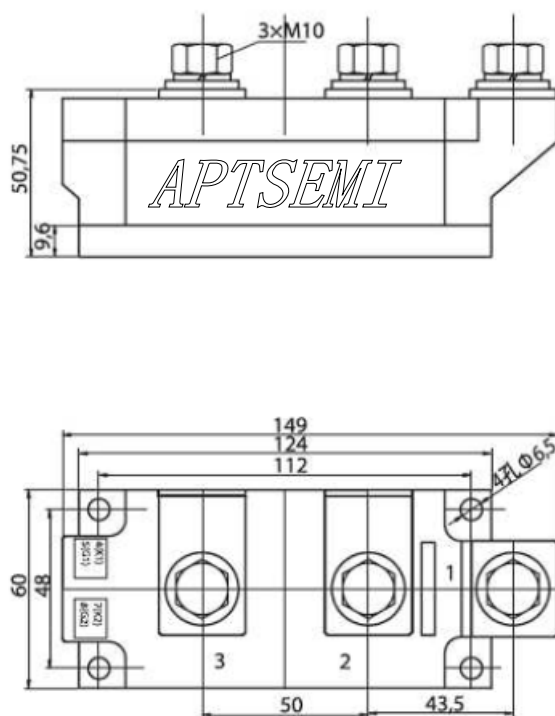
Symbol	Conditions	Values	Units
Rth(j-c)	Cont.;per module	0.035	°C/W
Rth(c-s)	per module	0.01	°C/W

## Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
$V_{TM}$	$T=25^{\circ}\text{C}$ $I_{TM}=1700\text{A}$			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
$V_{GT}$	$T_{VJ}=25^{\circ}\text{C}$ , $V_D=6\text{V}$			2	V
$I_{GT}$	$T_{VJ}=25^{\circ}\text{C}$ , $V_D=6\text{V}$			150	mA
$I_L$	$T_{VJ}=25^{\circ}\text{C}$ , $R_G=33\ \Omega$		300	2000	mA
$I_H$	$T_{VJ}=25^{\circ}\text{C}$ , $V_D=6\text{V}$		150	500	mA

## Package Outline Information

CASE: T6



Dimensions in mm