

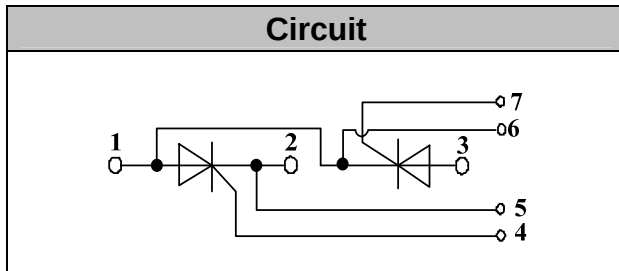
Thyristor Module

V_{RRM} / V_{DRM} 800 to 1800V

I_{TAV} 25A

Applications

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



Features

- International standard package
- High Surge Capability
- Glass passivated chip
- Simple Mounting
- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- UL recognized applied for file no. E230084

Module Type

TYPE	V _{RRM}	V _{RSM}
MT25C08T1	800V	900V
MT25C12T1	1200V	1300V
MT25C16T1	1600V	1700V
MT25C18T1	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
I _{TAV}	Sine 180°, T _c =85	25	A
I _{TSM}	T _{VJ} =45 t=10ms, sine T _{VJ} =125 t=10ms, sine	550 480	A
i ² t	T _{VJ} =45 t=10ms, sine T _{VJ} =125 t=10ms, sine	1500 1150	A ² s
Visol	a.c.50HZ;r.m.s.;1min	3000	V
T _{vj}		-40 to 125	
T _{stg}		-40 to 125	
Mt	To terminals(M5)	3 15%	Nm
Ms	To heatsink(M6)	5 15%	Nm
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
a	Maximum all/TT1 1.21 () TJETGBT/GS0 gs/TT1 1.00 Tf0.000 Tc-0.003 Tw10.020000 0 -0 10.02		

Thermal Characteristics



Electrical Characteristics

Symbol	Conditions	Values
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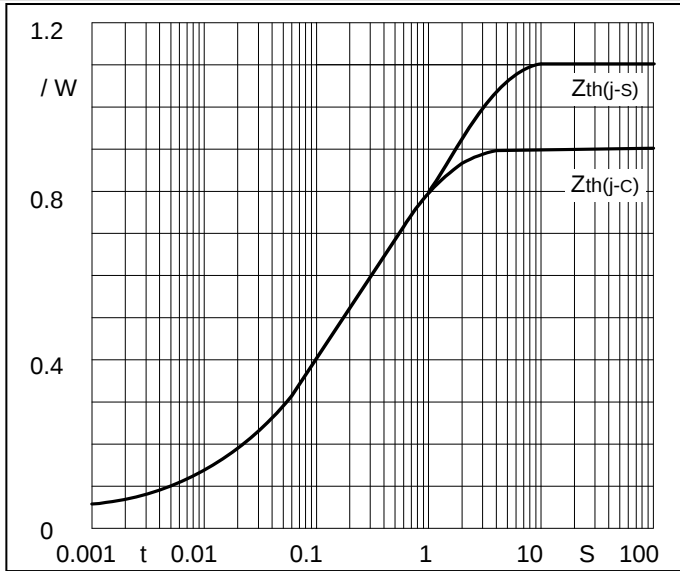


Fig3. Transient thermal impedance

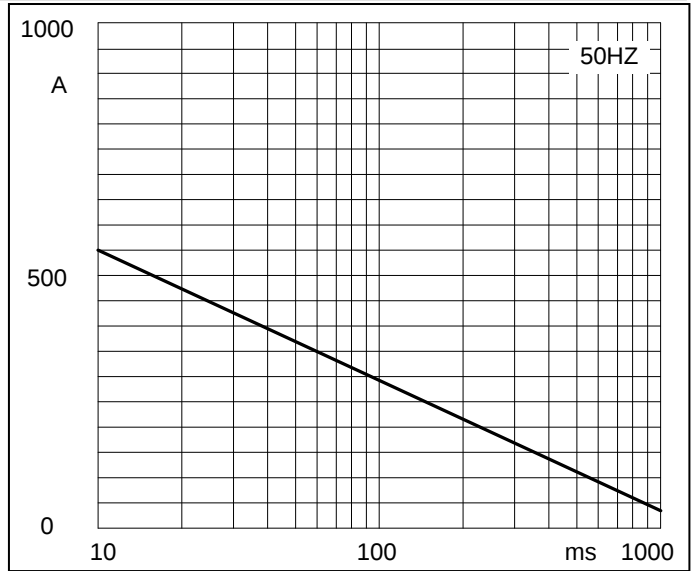
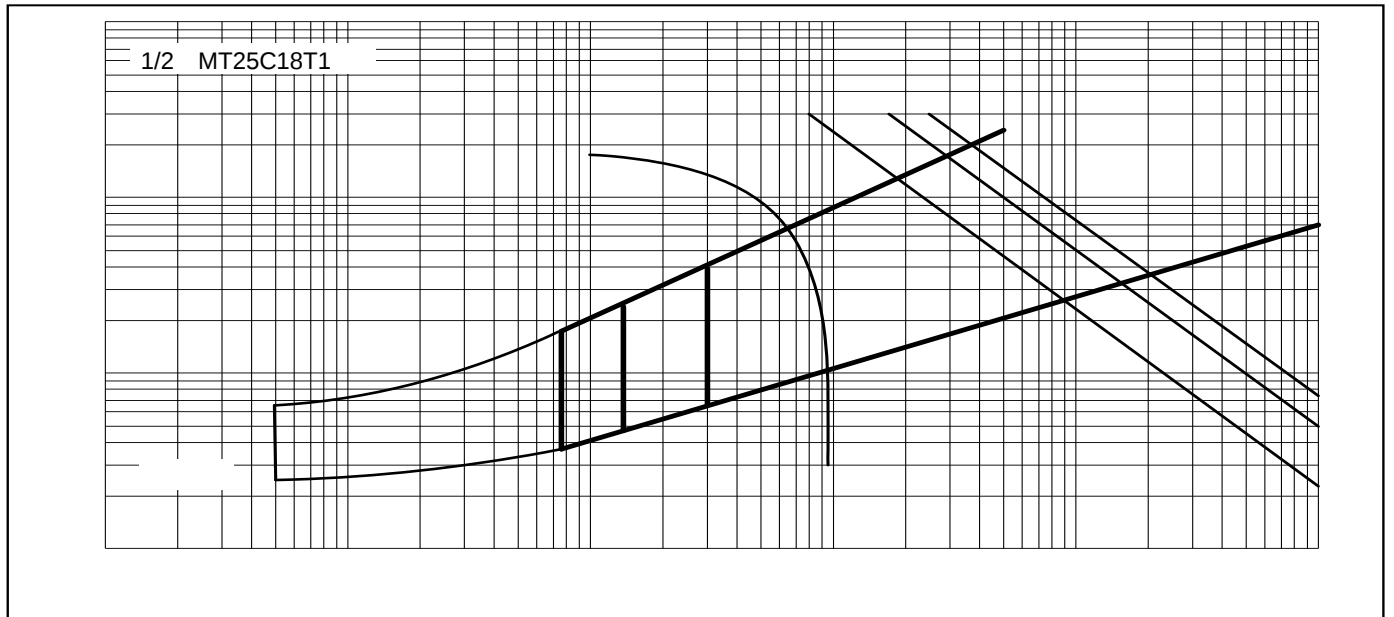
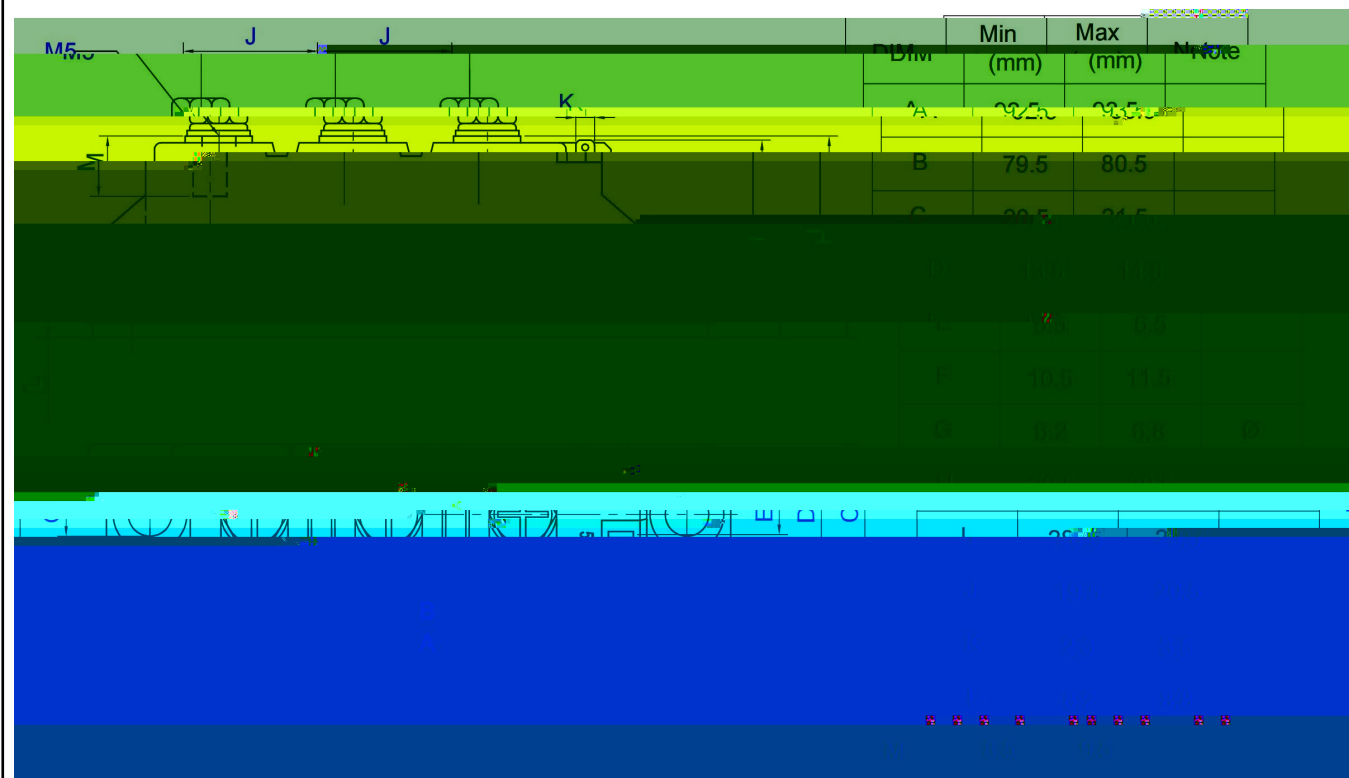


Fig4. Max Non-Repetitive Forward Surge Current



Package Outline Information



Item	Length: A (mm)	Width: B (mm)	Height: C (mm)	Quantity (PCS)
Inner Box	276	258	48	10
Outer Carton	545	295	240	100



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