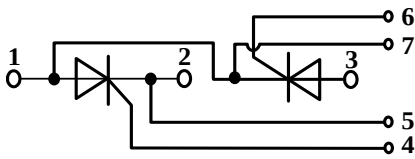




Applications

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

Circuit



	°C		
		200	A
I_{TSM}	$T_{VJ}=45^{\circ}\text{C}$ $t=10\text{ms}$, sine $T_{VJ}=125^{\circ}\text{C}$ $t=10\text{ms}$, sine	4500 4000	A
i^2t	$T_{VJ}=45^{\circ}\text{C}$ $t=10\text{ms}$, sine $T_{VJ}=125^{\circ}\text{C}$ $t=10\text{ms}$, sine	101250 80000	A^2s
V_{isol}	a.c.50HZ;r.m.s.;1min	3000	V
T_{vj}		-40 to 125	°C
T_{stg}		-40 to 125	°C
M_t	To terminals(M6)	$5 \pm 15\%$	Nm
M_s	To heat sink(M6)	$5 \pm 15\%$	Nm
di/dt	$T_{VJ}= T_{VJM}$, $2/3V_{DRM}$, $I_G =500\text{mA}$ $T_r<0.5\mu\text{s}$, $t_p>6\mu\text{s}$	200	A/ μs
dv/dt	$T_J= T_{VJM}$, $2/3V_{DRM}$, linear voltage rise	1000	V/ μs
a	Maximum allowable acceleration	50	m/s^2
Weight	Module(Approximately)	165	g

Symbol	Conditions	Values	Units
$R_{th(j-c)}$	per thyristor / per module	0.16/0.08	°C/W
$R_{th(c-s)}$	per thyristor / per module	0.1/0.05	°C/W



Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
V_{TM}	$T=25^{\circ}\text{C}$ $I_{TM}=500\text{A}$			1.68	V
I_{RRM}/I_{DRM}	$T_{VJ}=T_{VJM}$, $V_R=V_{RRM}$, $V_D=V_{DRM}$			50	mA
V_{TO}	For power-loss calculations only ($T_{VJ}=125^{\circ}\text{C}$)			0.85	V
r_T	$T_{VJ}=T_{VJM}$			1.5	m
V_{GT}	$T_{VJ}=25$				

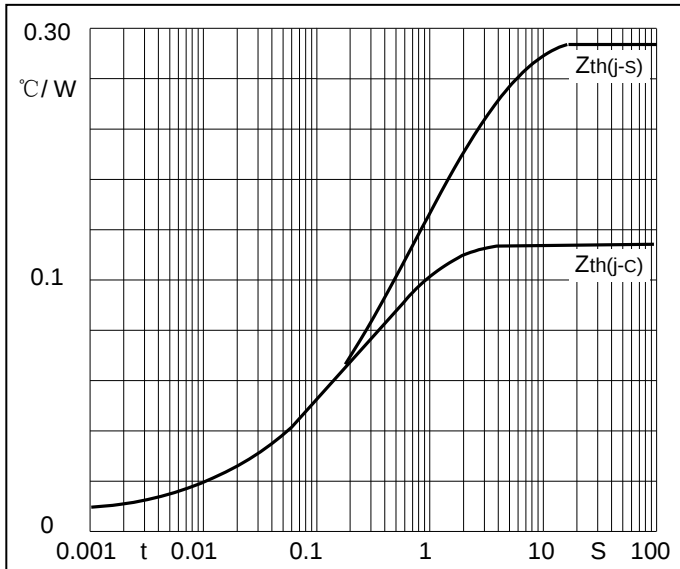


Fig3. Transient thermal impedance

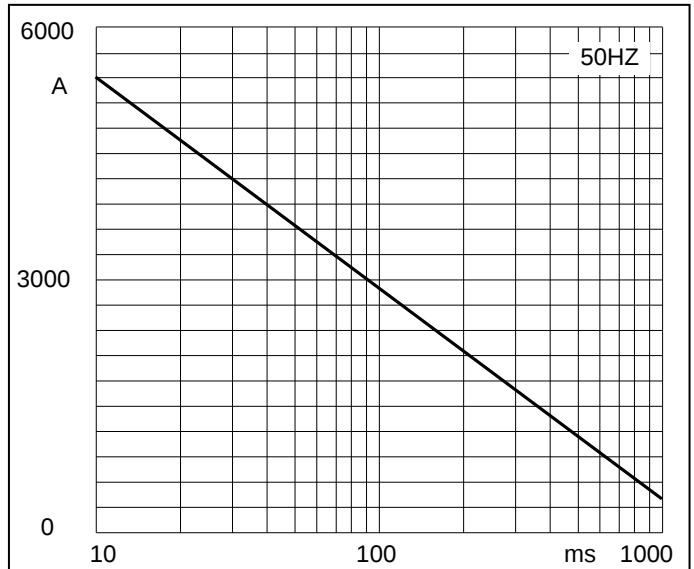


Fig4. Max Non-Repetitive Forward Surge Current

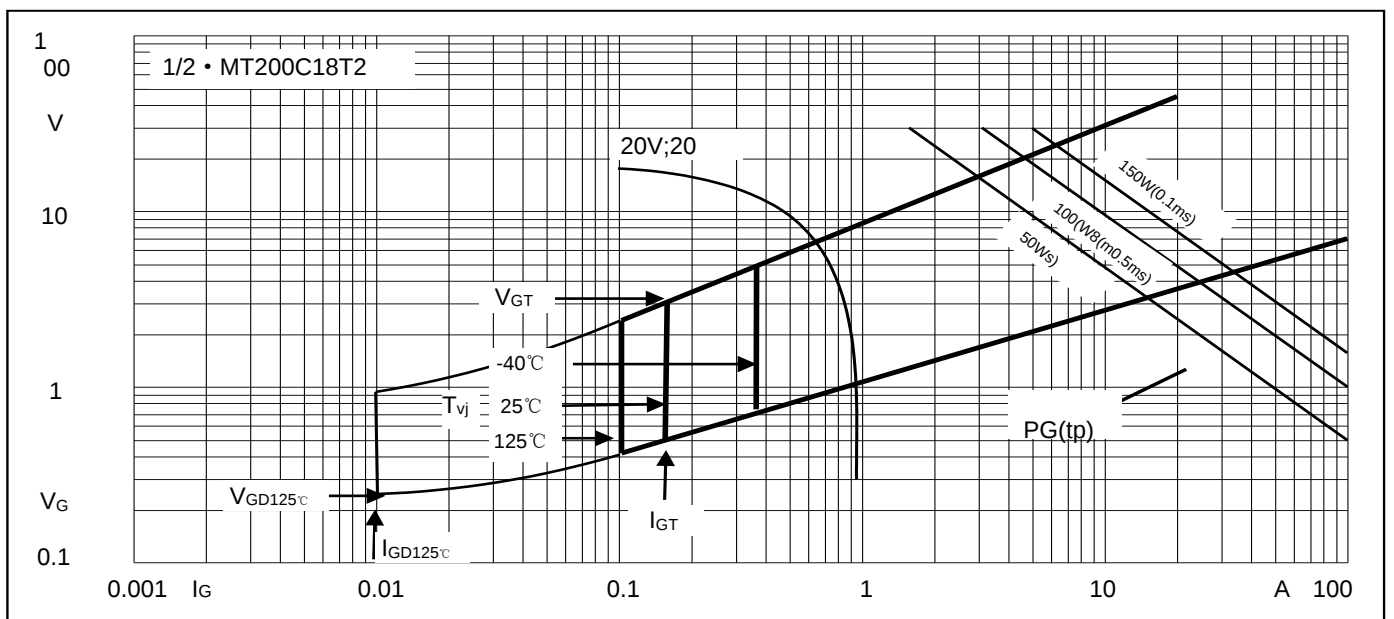
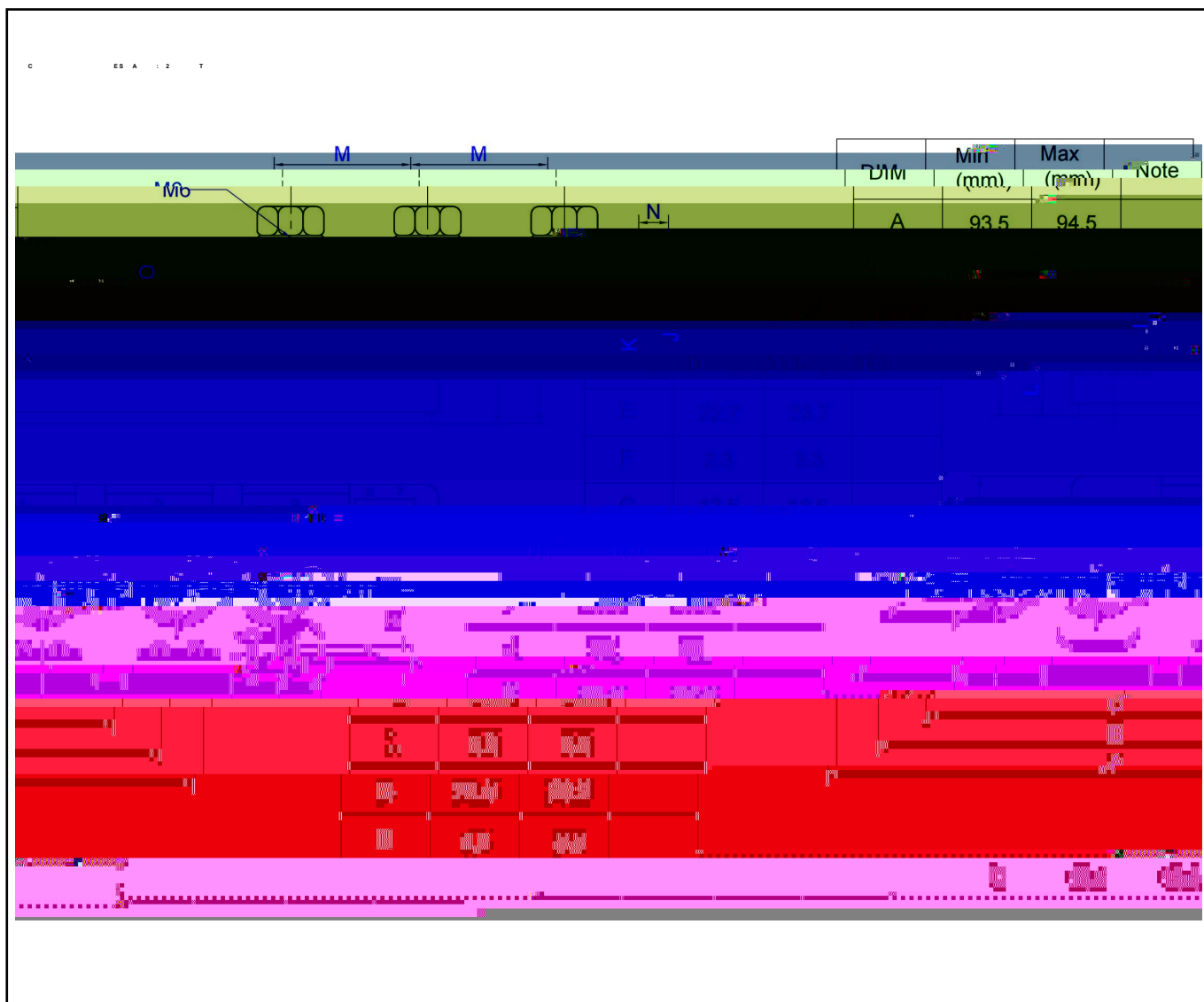


Fig5. Gate trigger Characteristics



Package Outline Information



Packing Standard

Item	Length: A (mm)	Width: B (mm)	Height: C (mm)	Quantity (PCS)
Inner Box	276	258	48	8
Outer Carton	545	295	240	80



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