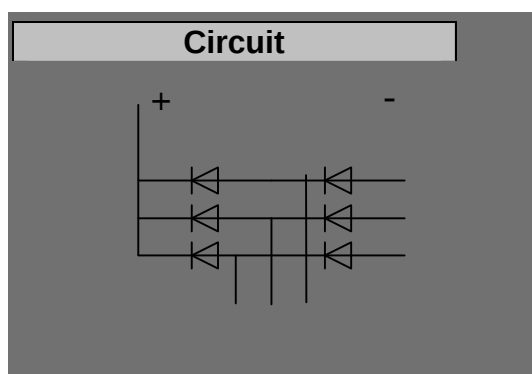




Module Type

Diode

Maximum Ratings

Symbol	Item	Conditions	Values	Units
I_D	Output Current(D.C.)	$T_c=96$ Three phase full wave	200	A
I_{FSM}	Surge forward current	$t=10ms, \text{sine}, T_{vj}=45$	1900	A
i^2t	Circuit Fusing Consideration	$t=10ms, \text{sine}, T_{vj}=45$	18050	A^2s
V_{isol}	Isolation Breakdown Voltage(R.M.S)	a.c.50HZ;r.m.s.;1min	3000	V
T_{vj}	Operating Junction Temperature		-40 to +150	
T_{stg}	Storage Temperature		-40 to +125	
M_t	Mounting Torque	To terminals(M4)	$2 \pm 15\%$	Nm
M_t		To terminals(M6)	$5 \pm 15\%$	Nm
M_s		To heatsink(M6)	$5 \pm 15\%$	Nm
Weight		Module Approximately	320	g

Thermal Characteristics

Symbol	Item	Conditions	Values	Units
$R_{th(j-c)}$	Thermal Impedance, max.	Junction to Case(TOTAL)	0.12	/W
$R_{th(c-s)}$	Thermal Impedance, max.	Case to Heat sink	0.06	/W

Electrical Characteristics



Thyristor Maximum Ratings

Symbol	Item	Conditions	Values	Units
I_{TAV}	Average On-State Current	$T_c=93^\circ\text{C}$, Single Phase half wave 180° conduction	200	A
I_{TSM}	Surge On-State Current			

Electrical and Thermal Characteristics



Performance Curves

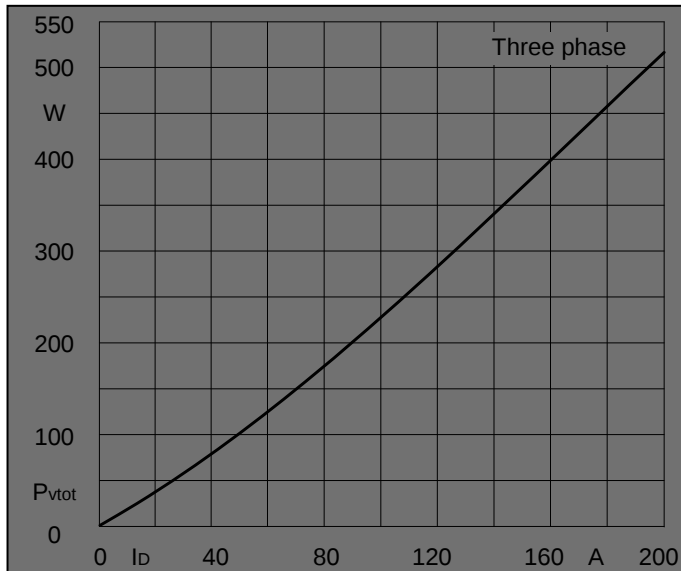


Fig1. Power dissipation

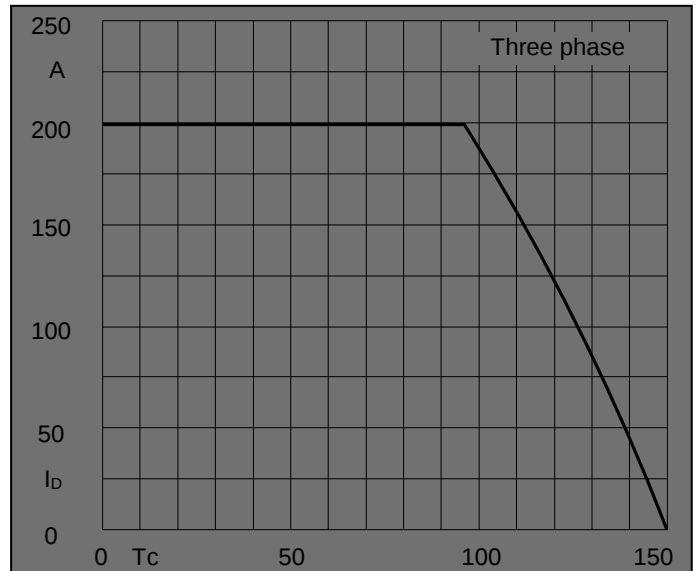


Fig2. Forward Current Derating Curve

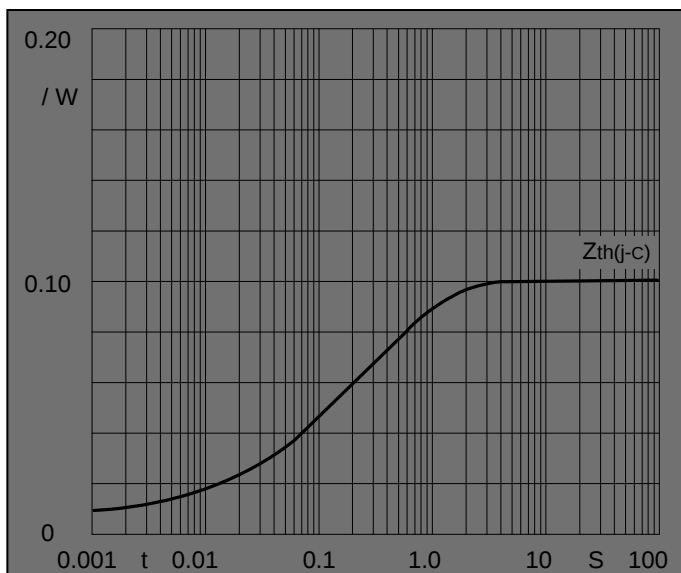


Fig3. Transient thermal impedance

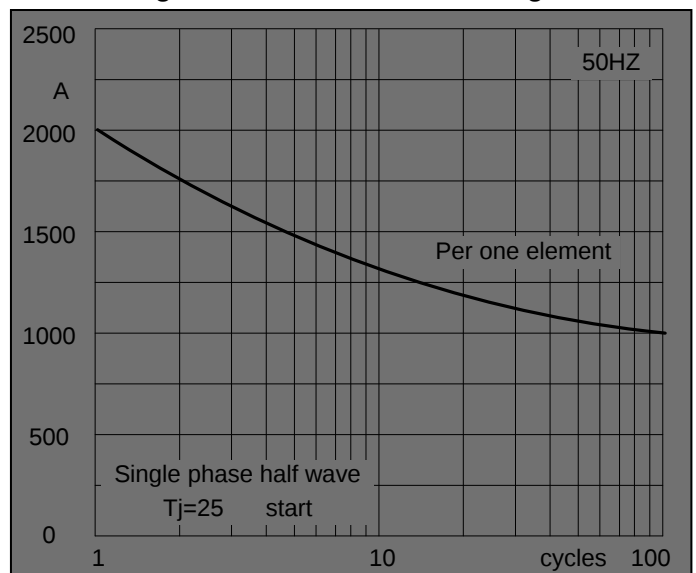


Fig4. Max Non-Repetitive Forward Surge Current

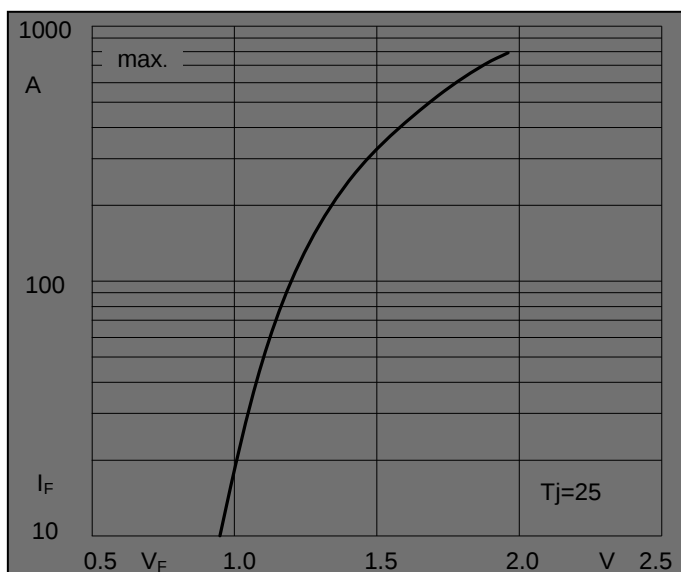


Fig5. Forward Characteristics

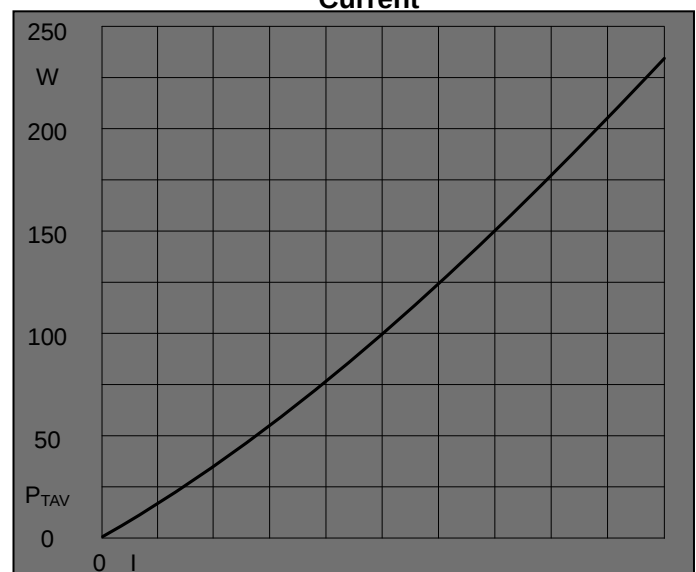


Fig6. SCR Power dissipation

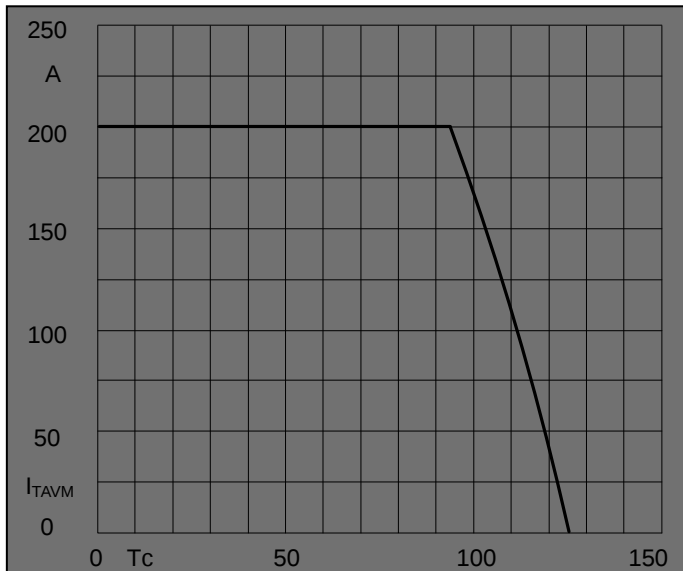


Fig7. SCR Forward Current Derating Curve

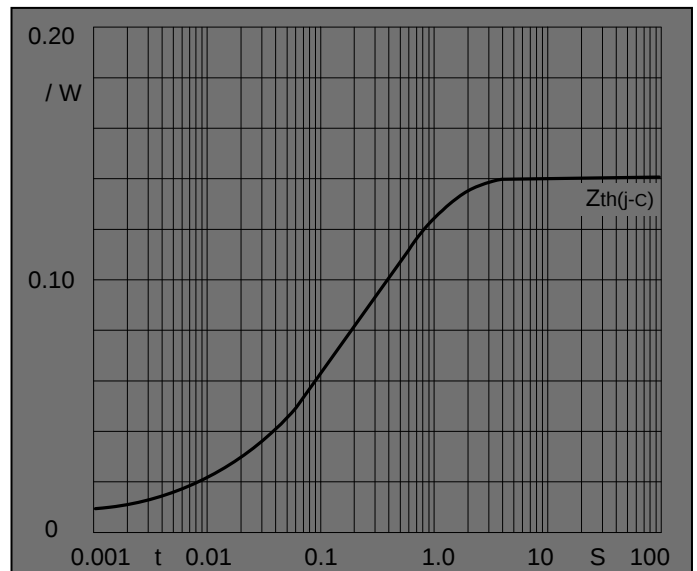


Fig8. SCR Transient thermal impedance

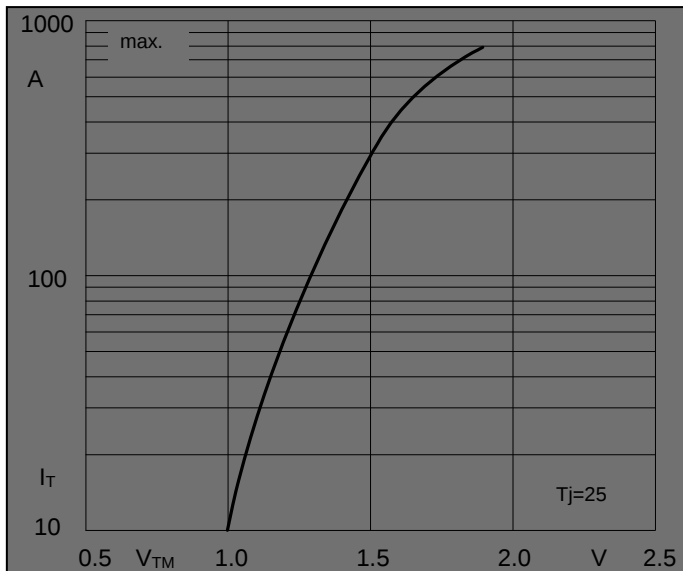


Fig9. SCR Forward Characteristics

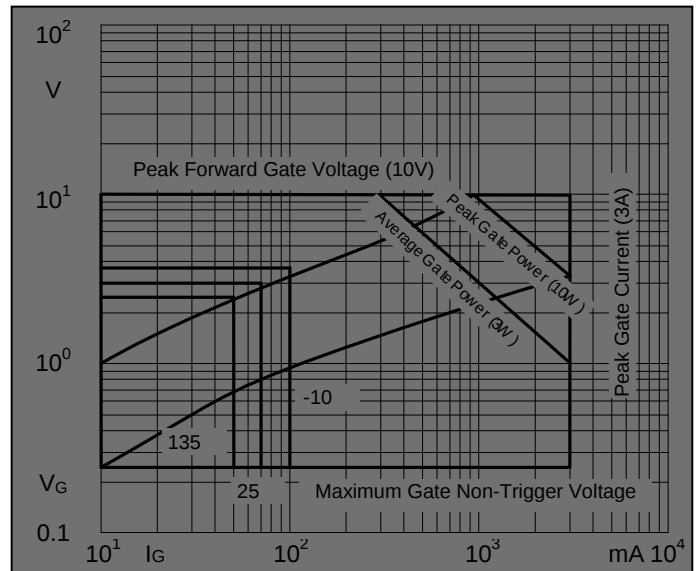


Fig10. Gate trigger Characteristics



MT200DT-L2
