



Thyristor Modules

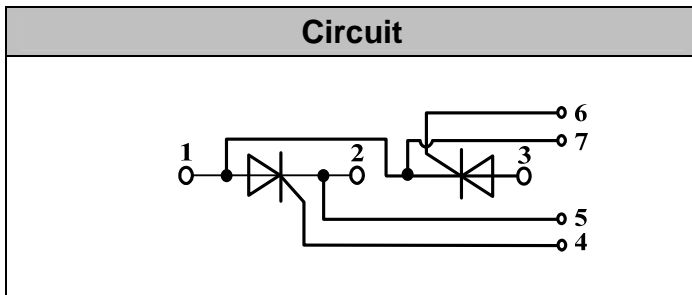
VRRM / VDRM 800 to 1800V
ITAV 200A

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. E360040



Module Type

TYPE	VRRM	VRSM
MT200C08T2	800V	900V
MT200C12T2	1200V	1300V
MT200C16T2	1600V	1700V
MT200C18T2	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
I_{TAV}	Sine 180°; $T_c=85^\circ\text{C}$	200	A
I_{TSM}	$T_{VJ}=45^\circ\text{C}$ t=10ms, sine	5500	A
	$T_{VJ}=125^\circ\text{C}$ t=10ms, sine	5000	
i^2t	$T_{VJ}=45^\circ\text{C}$ t=10ms, sine	151000	A ² s
	$T_{VJ}=125^\circ\text{C}$ t=10ms, sine	125000	
Visol	a.c.50HZ;r.m.s.;1min	3000	V
T_{vj}		-40 to 130	°C
T_{stg}		-40 to 125	°C
Mt	To terminals(M6)	$3 \pm 15\%$	Nm
Ms	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

Thermal Characteristics

Symbol	Conditions	Values	Units
Rth(j-c)	per thyristor / per module	0.16/0.08	°C/W
Rth(c-s)	per thyristor / per module	0.1/0.05	°C/W



Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
V_{TM}	$T=25^{\circ}C$ $I_{TM}=500A$			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 ($T_{VJ}=125^{\circ}C$)			0.85	V
r_T	$T_{VJ}=T_{VJM}$			1.5	m Ω
V_{GT}	$T_{VJ}=25^{\circ}C$, $V_D=6V$			3	V
I_{GT}	$T_{VJ}=25^{\circ}C$, $V_D=6V$			200	mA
V_{GD}	$T_{VJ}=125^{\circ}C$, $V_D=2/3V_{DRM}$			0.25	V
I_{GD}	$T_{VJ}=125^{\circ}C$, $V_D=2/3V_{DRM}$			10	mA
I_L	$T_{VJ}=25^{\circ}C$, $R_G=33\Omega$		300	1000	mA
I_H	$T_{VJ}=25^{\circ}C$, $V_D=6V$		150	400	mA
tg d	$T_{VJ}=25^{\circ}C$, $I_G=1A$, $di_G/dt=1A/us$		1		us
tq	$T_{VJ}=T_{VJM}$		100		us



Performance Curves

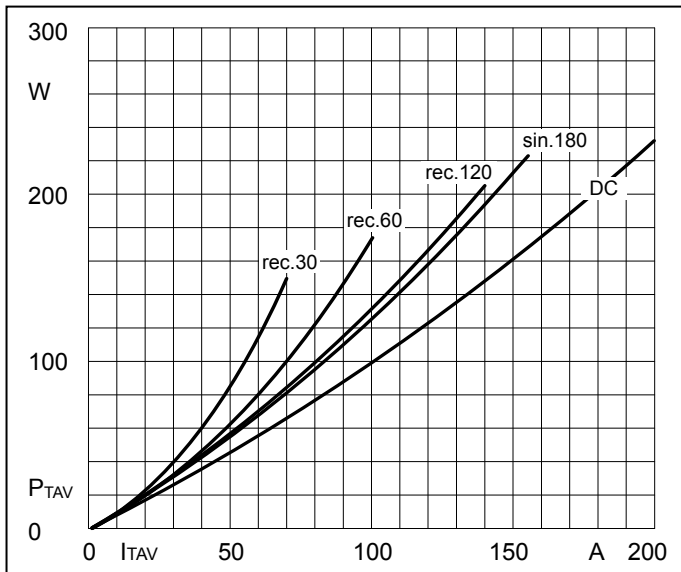


Fig1. Power dissipation

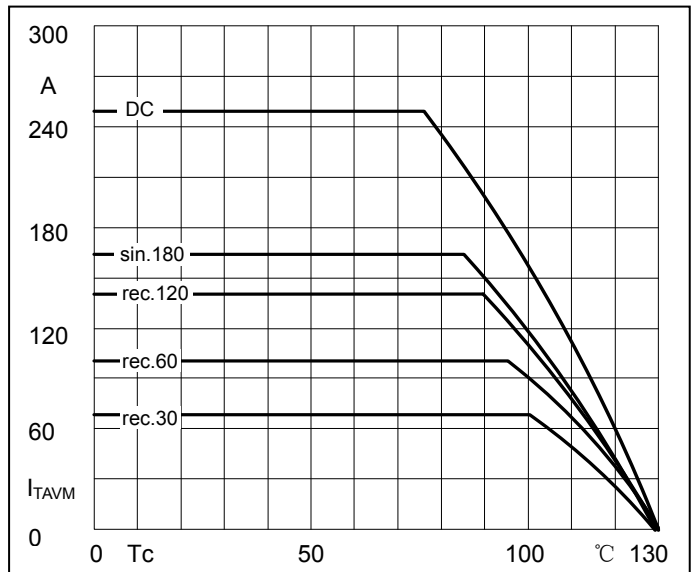


Fig2. Forward Current Derating Curve

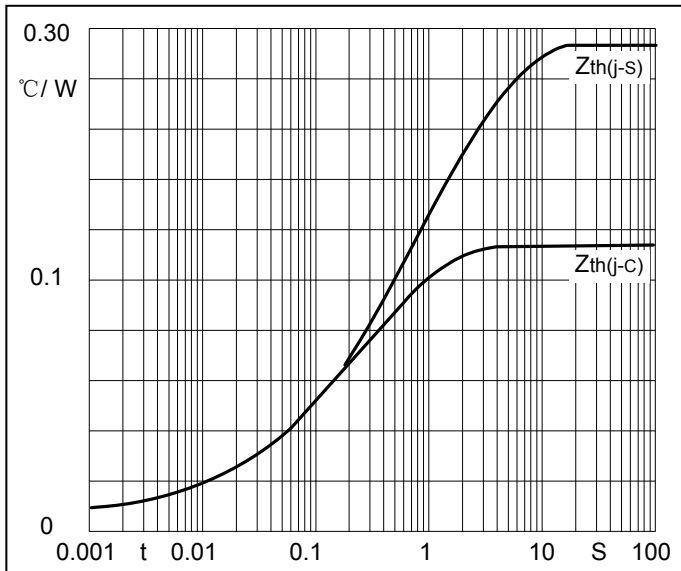


Fig3. Transient thermal impedance

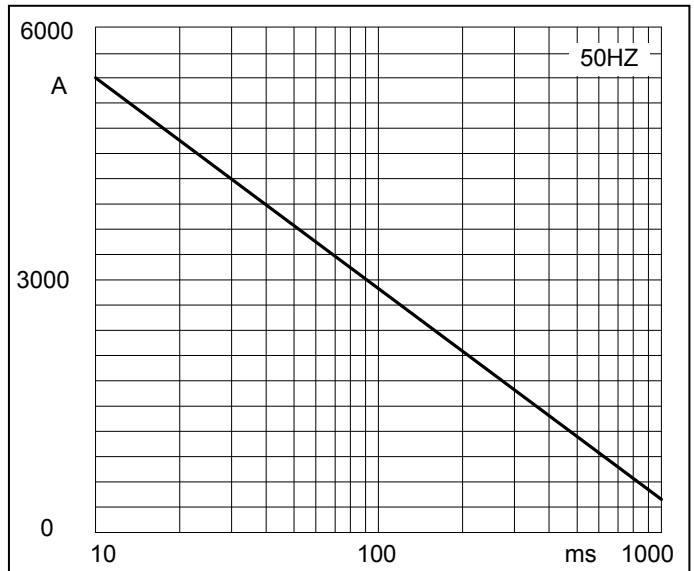


Fig4. Max Non-Repetitive Forward Surge Current

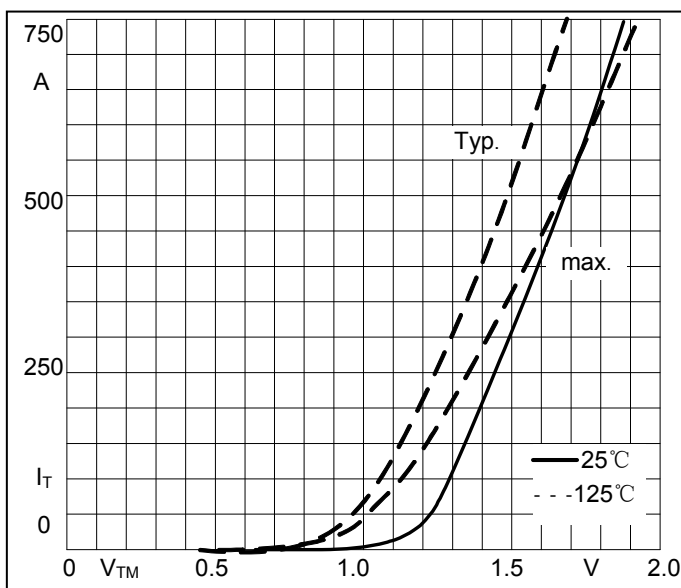


Fig5. Forward Characteristics

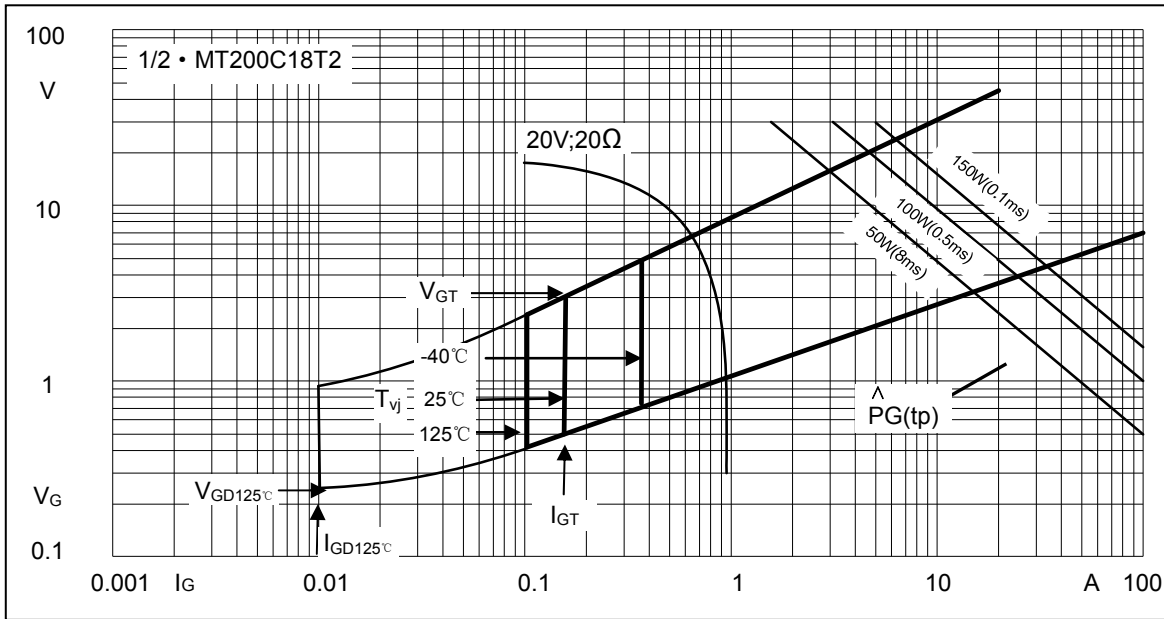
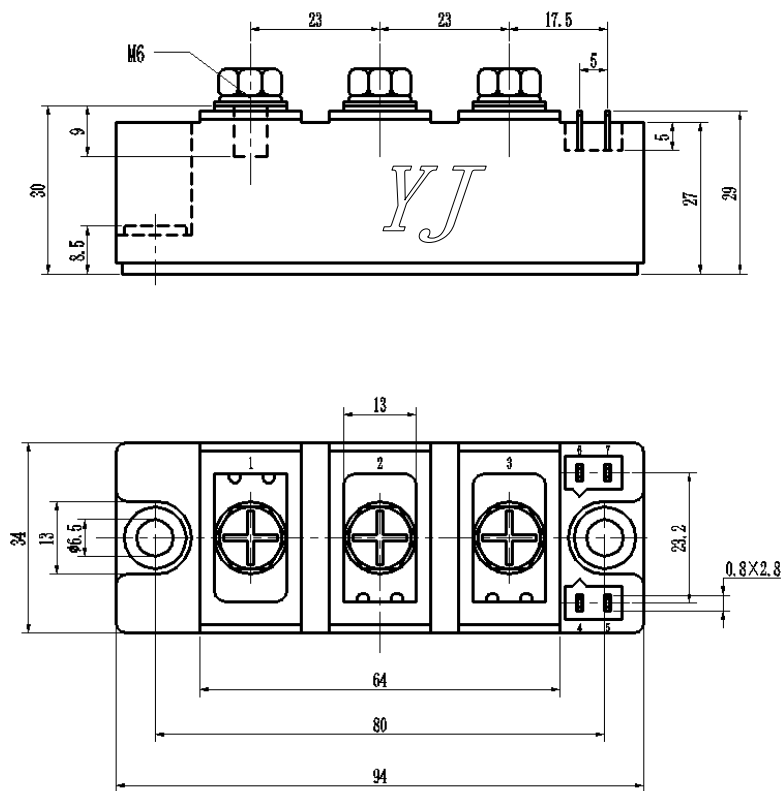


Fig6. Gate trigger Characteristics

Package Outline Information

CASE: T2



Dimensions in mm

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for yangjie manufacturer:

Other Similar products are found below :

[BR25005](#) [BR2501](#) [BR2506](#) [BZV55C12](#) [BZX55C10](#) [BZX55C4V7](#) [BR2504L](#) [MD200K16D2-A1-0000](#) [MD200S12M3-A1-0000](#)
[MD200A16D2-A1-0000](#) [MF200DU04FJ-A2-0000](#) [MD165U16D2-A1-0000](#) [MD100S12M4-A1-0000](#) [KBPC3506](#) [MF150C06F5](#)
[MD165C16D2](#) [MD100S16M5-A1-0000](#) [MD200S18M3-A1-0000](#) [MD100S12M3-A1-0000](#) [MD130S12M5-A1-0000](#) [MD75S18M4-A1-0000](#)
[MD100S08M3-A1-0000](#) [MD250S12NM3-A1-0000](#) [MD250S16NM3-A1-0000](#) [MT100DT08L1-A1-0000](#) [MT100DT18L1-A1-0000](#)
[MD100S08M5-A1-0000](#) [MT75DT08L1-A1-0000](#) [MD130S16M3-A1-0000](#) [MD160S18M5-A1-0000](#) [MD160S08M3-A1-0000](#) [MD160S08M5-](#)
[A1-0000](#) [MD50S16M4-A1-0000](#) [MD100S18M4-A1-0000](#) [MD250S18M3-A1-0000](#) [MT160C18T2-A1-0000](#) [MD100S16M3-A1-0000](#)
[MT75DT16L1-A1-0000](#) [MD100S12M5-A1-0000](#) [MD100S16NM3-A1-0000](#) [MD100S18M8-A1-0000](#) [MT100DT12L1-A1-0000](#)
[MT75DT18L1-A1-0000](#) [MD100S18M3-A1-0000](#) [MD100S18M5-A1-0000](#) [MD130S16M5-A1-0000](#) [MD160S16NM3-A1-0000](#)
[MD160S18NM3-A1-0000](#) [MD130S08M3-A1-0000](#) [MD100S08M2-A1-0000](#)