

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components

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Phone: (818) 701-4933 Fax: (818) 701-4939 MT200C08T2 MT200C12T2 MT200C16T2 MT200C18T2

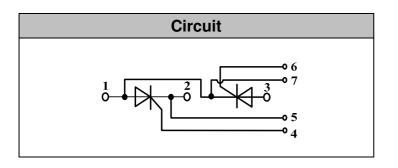
Features

- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)
- International standard package
- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- Glass passivated chip
- Simple Mounting

Applications

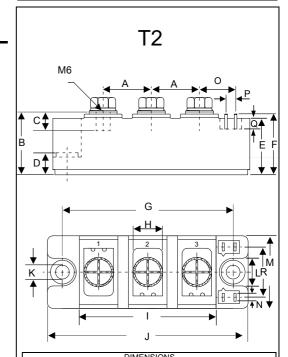
- Power Converters
- Lighting Control
- DC Motor Control and Drives
- · Heat and temperature control





200 Amp THYRISTOR MODULE

800~1800 Volts



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.894	.917	22.70	23.30	
В	1.169	1.193	29.70	30.30	
C	.343	.366	8.70	9.30	
D	.323	.343	8.20	8.70	
Е	1.051	1.075	26.70	27.30	
F	1.130	1.154	28.70	29.30	
G	.120	.130	79.70	80.30	
Н	.500	.524	12.70	13.30	
	2.501	2.531	63.70	64.30	
J	3.689	3.713	93.70	94.30	
K	.256		6.50		Ø
L	.500	.524	12.70	13.30	
М	1.327	1.350	33.70	34.30	
Ν	0.032X0.11		0.8	8X2.8	
0	.677	.700	17.20	17.80	
Р	.185	.209	4.70	5.30	
Q	.185	.209	4.70	5.30	
R	.902	.925	22.90	23.50	



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°;Tc=85℃	200	А
I _{TSM}	T_{VJ} =45°C t=10ms, sine T_{VJ} =125°C t=10ms, sine	5500 5000	А
i ² t	T_{VJ} =45°C t=10ms, sine T_{VJ} =125°C t=10ms, sine	151000 125000	A2s
Visol	a.c.50HZ;r.m.s.;1min	3000	V
Tvj		-40 to 130	$^{\circ}$
Tstg		-40 to 125	$^{\circ}$
Mt	T terminals(M6)	3±15%	Nm
Ms	T heatsink(M6)	5±15%	Nm
di/dt	T_{VJ} = T_{VJM} , 2/3 V_{DRM} , I_{G} =500mA Tr<0.5us,tp>6us	200	A/us
dv/dt	_J = T _{VJM} ,2/3V _{DRM} , linear voltage rise	1000	V/us
а	Maximum allowable acceleration	50	m/s ²
Weight	Mod e(Approximately)	165	g

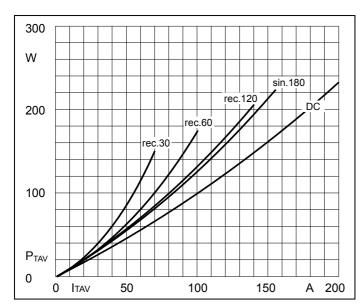
Thermal Characteristics

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

Cumbal	Conditions	Values		Heite
Symbol				Units
V_{TM}	T=25℃ I _{TM} =620A		1.7	V
I _{RRM} /I _{DRM}	$T_{VJ} = T_{VJM}$, $V_R = V_{RRM}$, $V_D = V_{DRM}$		40	mA
V_{TO}	For power-loss calculations only (T _{VJ} =125℃)		0.85	V
r _T	$T_{VJ} = T_{VJM}$		1.5	mΩ
V_{GT}	T_{VJ} =25°C , V_D =6V		3	V
I _{GT}	T_{VJ} =25°C , V_D =6V		200	mA
$V_{\sf GD}$	$T_{VJ} = 125^{\circ}C$, $V_D = 2/3V_{DRM}$		0.25	V
I _{GD}	$T_{VJ} = 125^{\circ}C$, $V_D = 2/3V_{DRM}$		10	mA
Ι _L	T_{VJ} =25°C , R_G = 33 Ω	300	1000	mA
I _H	T_{VJ} =25°C , V_D =6V	150	400	mA
tgd	T_{VJ} =25°C, I_G =1A, di_G/dt =1A/us	1	•	us
tq	_{VJ} =T _{VJM}	100		us



Performance Curves



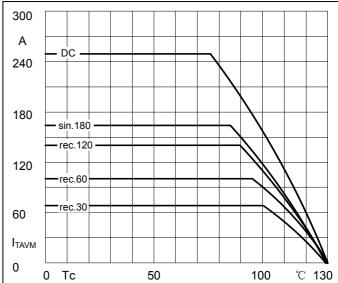
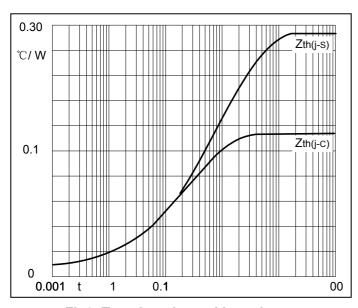


Fig1. Power dissipation

Fig2.Forward Current Derating Curve





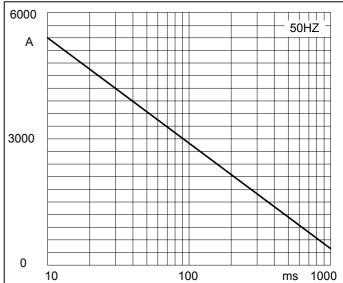


Fig4. Max Non-Repetitive Forward Surge Current



Performance Curves

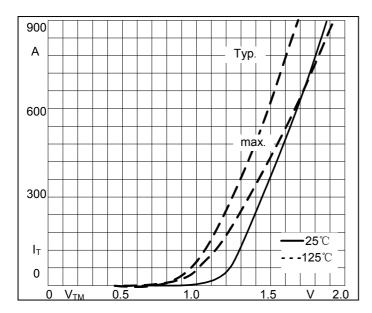


Fig5. Forward Characteristics

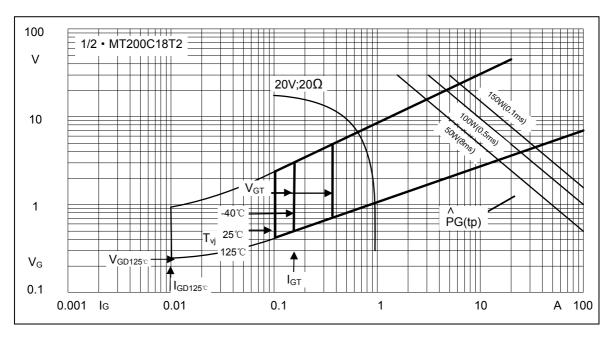


Fig6. Gate trigger Characteristics



Ordering Information:

Device	Packing
Part Number-BP	Bulk: 8PCS/BOX;80PCS/CTN

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