

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 MT130C08T2 MT130C12T2 MT130C16T2 MT130C18T2

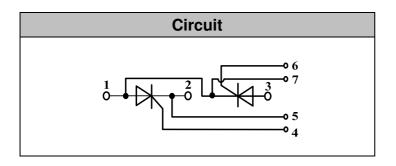
Features

- 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

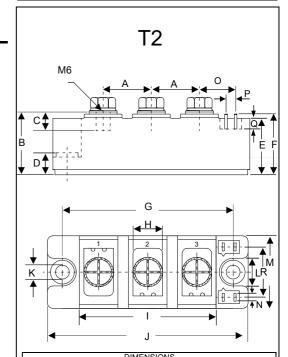
Applications

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





130 Amp THYRISTOR MODULE 800~1800 Volts



DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.894	.917	22.70	23.30	
В	1.169	1.193	29.70	30.30	
С	.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	
ĺ	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	
M	1.327	1.350	33.70	34.30	
N	0.032X0.11		0.8X2.8		
0	.677	.700	17.20	17.80	
Р	.185	.209	4.70	5.30	
Q	.185	.209	4.70	5.30	1
R	.902	.925	22.90	23.50	
				-	



Module Type

TYPE	Vrrm	Vrsm
MT130C08T2	800V	900V
MT130C12T2	1200V	1300V
MT130C16T2	1600V	1700V
MT130C18T2	1800V	1900V

Maximum Ratings

Symbol	Conditions	Values	Units
I _{TAV}	Sine 180°;Tc=85℃	130	Α
I _{TSM}	T_{VJ} =45°C t=10ms, sine T_{VJ} =125°C t=10ms, sine	4700 4000	А
i ² t	T_{VJ} =45°C t=10ms, sine T_{VJ} =125°C t=10ms, sine	110000 80000	A2s
Visol	a.c.50HZ;r.m.s.;1min	3000	V
Tvj		-40 to 130	$^{\circ}$
Tstg		-40 to 125	$^{\circ}$
Mt	To terminals(M6)	3±15%	Nm
Ms	To 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	$T_J = T_{VJM}$, 2/3 V_{DRM} , linear voltage rise	1000	V/us
а	Maximum allowable acceleration	50	m/s ²
Weight	Module(Approximately)	165	g

Thermal Characteristics

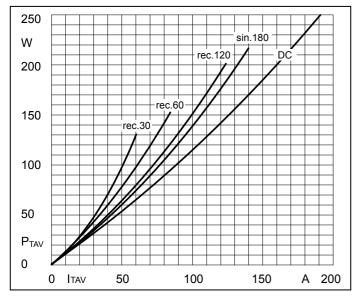
Symbol	Conditions	Values	Units
Rth(j-c)	Cont.;per thyristor / per module	0.18/0.09	°C/W
Rth(c-s)	per thyristor / per module	0.1/0.05	°C/W

Electrical Characteristics

Symbol	Conditions	Values			Units
Syllibol	Conditions				Uiilis
V_{TM}	T=25℃ I _{TM} =500A			1.8	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℃)			1	V
r _T	$T_{VJ} = T_{VJM}$			1.6	mΩ
V_{GT}	T_{VJ} =25 $^{\circ}$ C , V_{D} =6 V			3	V
I _{GT}	T_{VJ} =25 $^{\circ}$ C , V_{D} =6 V			150	mA
$V_{\sf GD}$	T_{VJ} =125°C , V_D =2/3 V_{DRM}			0.25	V
I_{GD}	T_{VJ} =125°C , V_D =2/3 V_{DRM}			10	mA
Ι _L	T_{VJ} =25 $^{\circ}$ C , R_{G} = 33 Ω		300	1000	mA
I _H	T _{VJ} =25℃ , V _D =6V		150	400	mA
tgd	T _{VJ} =25℃, I _G =1A, di _G /dt=1A/us		1		us
tq	$_{VJ} = T_{VJM}$		100		us



Performance Curves





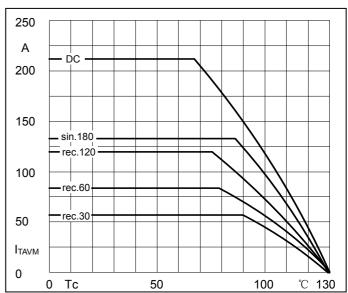


Fig2.Forward Current Derating Curve

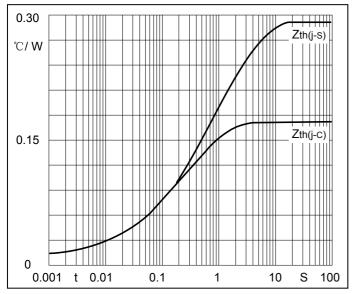


Fig3. Transient thermal impedance

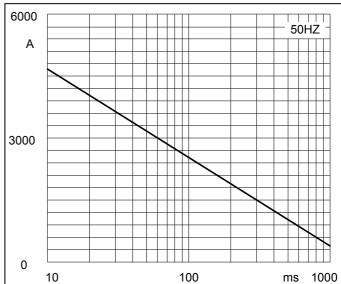


Fig4. Max Non-Repetitive Forward Surge Current



Performance Curves

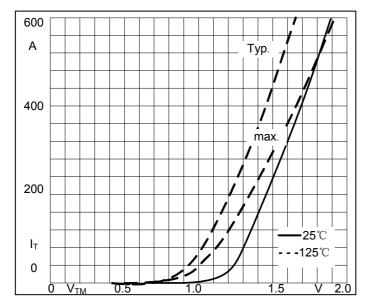


Fig5. Forward Characteristics

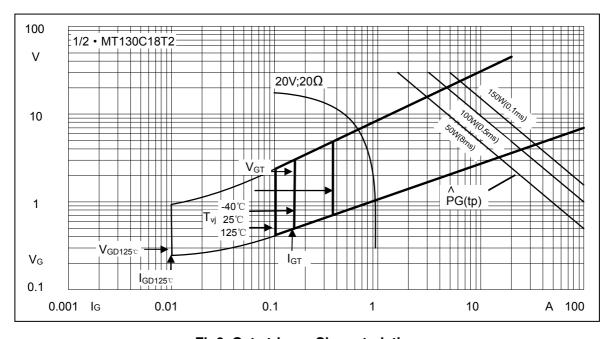


Fig6. Gate trigger Characteristics



Ordering Information:

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp.** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp.** and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.