

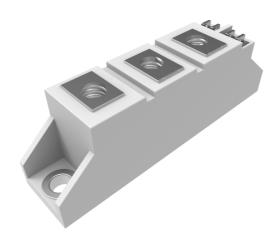
Features

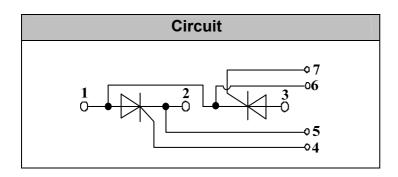
- Lead Free Finish/RoHS Compliant (NOTE 1)("P" Suffix designates RoHS Compliant. See ordering information)
- International standard package
- Heat transfer through aluminum oxide DBC ceramic isolated metal baseplate
- · Glass passivated chip
- Simple Mounting

Applications

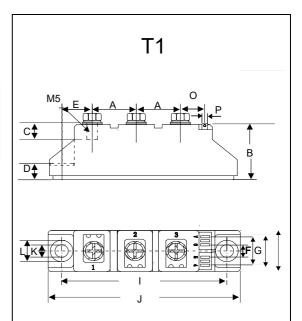
- Power Converters
- Lighting Control
- DC Motor Control and Drives
- Heat and temperature control

MCC Part Number	V_{RRM}	V _{RSM}
MT110C16T1	1600V	1700V
MT110C18T1	1800V	1900V





110 Amp THYRISTOR MODULE 1600-1800 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.776	0.799	19.50	20.50	
В	1.169	1.193	29.50	30.50	
С	0.343	0.366	8.50	9.50	
D	0.323	0.346	8.00	9.00	
Е	0.602	0.622	15.10	16.00	
F	0.224	0.248	5.50	6.50	
G	0.539	0.563	13.50	14.50	
Н	0.657	0.681	16.50	17.50	
ı	3.138	3.161	79.50	80.50	
J	3.650	3.673	92.50	93.50	
K	0.2	56	6.5	50	Ø
L	0.421	0.445	10.50	11.50	
М	0.815	0.839	20.50	21.50	
0	0.579	0.602	14.50	15.50	
Р	0.11X	0.032	2.8	6.0	



Maximum Ratings

Symbol	Conditions	Values	Units
I _{TAV}	Sine 180°;Tc=85℃	110	Α
I _{TSM}	T_{VJ} =45°C t=10ms, sine T_{VJ} =125°C t=10ms, sine	2250 1900	А
i ² t	T_{VJ} =45°C t=10ms, sine T_{VJ} =125°C t=10ms, sine	25000 18000	A ² s
Visol	a.c.50HZ;r.m.s.;1min	3000	V
Tvj		-40 to 130	$^{\circ}$
Tstg		-40 to 125	$^{\circ}$ C
Mt	To terminals(M5)	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	150	A/us
dv/dt	T _J = T _{VJM} ,2/3V _{DRM} , linear voltage rise	1000	V/us
а	Maximum allowable acceleration	50	m/s ²
Weight	Module(Approximately)	100	g

Thermal Characteristics

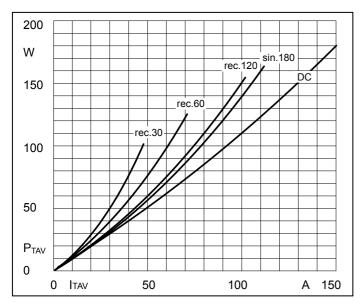
Symbol	Conditions	Values	Units
Rth(j-c)	Cont.; thyristor / per module	0.28/0.14	°C/W
Rth(c-s)	per thyristor / per module	0.2/0.1	°C/W

Electrical Characteristics

Symbol	Conditions	Values		Units
Symbol	Conditions			Ullits
V_{TM}	T=25℃ I _{TM} =300A		1.65	V
I _{RRM} /I _{DRM}	$T_{VJ} = T_{VJM}, V_R = V_{RRM}, V_D = V_{DRM}$		20	mA
V_{TO}	For power-loss calculations only (T _{VJ} =125℃)		0.9	V
r _T	$T_{VJ} = T_{VJM}$		2	mΩ
V_{GT}	T_{VJ} =25 $^{\circ}$ C , V_{D} =6 V		3	V
I _{GT}	T _{VJ} =25℃ , V _D =6V		150	mA
$V_{\sf GD}$	$T_{VJ} = 125^{\circ}C$, $V_D = 2/3V_{DRM}$		0.25	V
I_{GD}	$T_{VJ} = 125^{\circ}C$, $V_D = 2/3V_{DRM}$		6	mA
Iμ	T_{VJ} =25 $^{\circ}$ C , R_{G} = 33 Ω	300	600	mA
I _H	T _{VJ} =25℃ , V _D =6V	150	250	mA
tgd	T _{VJ} =25℃, I _G =1A, di _G /dt=1A/us	1		us
tq	$_{VJ} = T_{VJM}$	100		us



Performance Curves



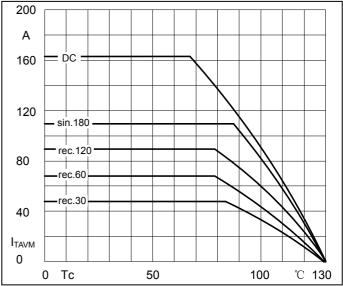
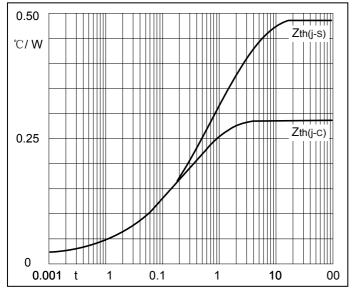


Fig1. Power dissipation

Fig2.Forward Current Derating Curve





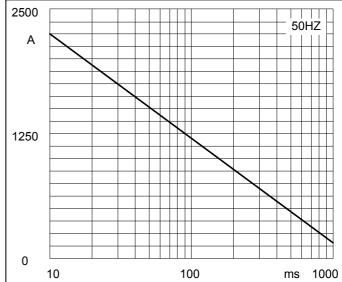


Fig4. Max Non-Repetitive Forward Surge Current



Performance Curves

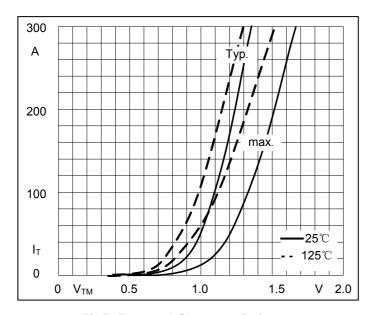


Fig5. Forward Characteristics

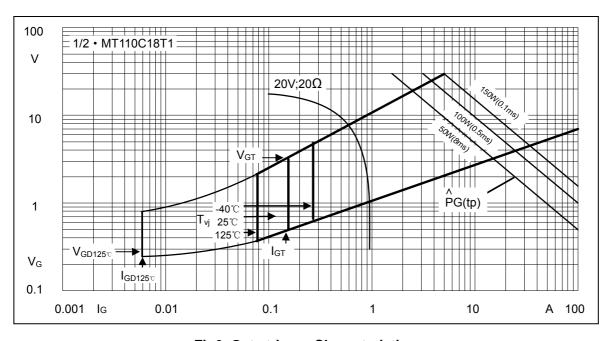


Fig6. Gate trigger Characteristics



Ordering Information

Device	Packing
Part Number-BP	Bulk: 10PCS/BOX;100PCS/CTN

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