## **MS TT200**





### **Key Parameters**

 $V_{DRM} / V_{RRM} = 2800V$   $I_{T(AV)} = 200A$   $I_{TSM} = 6300A$   $V_{T(TO)} = 0.90V$   $r_{T} = 1.1m\Omega$ 

#### **Features**

- Full blocking capability over wide temperature range
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Pressure contacts technology for high reliability

### **Applications**

- Power Supplies
- DC motor control
- Controlled Rectifiers
- AC switch

## **Ordering Information**

MS	TT	200	К	28
Fixed code	TT- Thyristor- Thyristor Module	Current Code	Technology K = Pressure Contact Technology	Voltage Code Code X 100 = V <sub>DRM</sub> /V <sub>RRM</sub>

Order Code MS TT200K28: 2800V VDRM, VRRM, Thyristor-Thyristor Module

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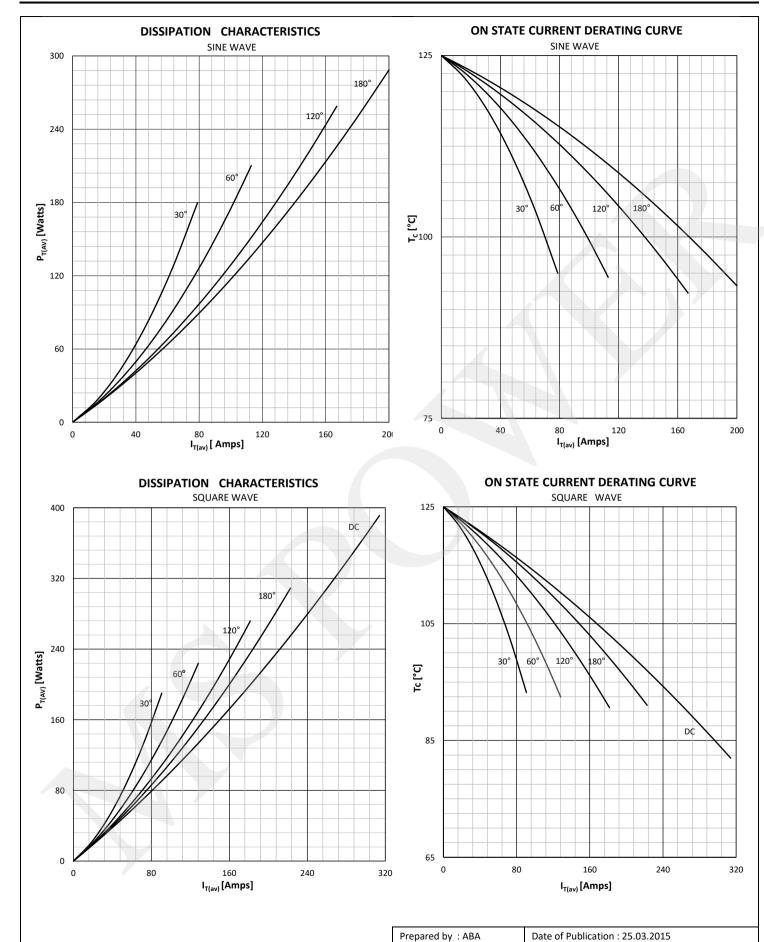


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	2000 - 2800	V
V RSM	Non-repetitive peak reverse voltage		125	2100 - 2900	V
V DRM	Repetitive peak off-state voltage		125	2000 - 2800	V
I RRM	Repetitive peak reverse current	V= V RRM	125	50	mA
I DRM	Repetitive peak off-state current	V= V DRM	125	50	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, T <sub>c</sub> =93°C 180° sin ,50 Hz, T <sub>c</sub> =85°C		200 237	A
I RMS	RMS on-state current	T <sub>c</sub> =93°C		314	Α
		Sine wave, 10 ms	25	6300	A
I TSM	Surge on-state current	Without reverse voltage	125	5500	Α
		Sine wave, 10 ms	25	198450	A <sup>2</sup> s
I² t	l² t	Without reverse voltage	125	151250	A²s
V т	On-state voltage	On-state current = 785A	25	2.0	V
V T(TO)	Threshold voltage		125	0.90	V
r T	On-state slope resistance		125	1.1	mΩ
SWITCH di/dt	Critical rate of rise of on-state current	Non-repetitive f=1Hz, I <sub>GM</sub> =2.0A, di <sub>G</sub> /dt>1.0A/µs, I <sub>TM</sub> =2I <sub>TAV</sub> , V <sub>D</sub> =67%V <sub>DRM</sub>	125	200	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\% V_{DRM}$	125	1000	V/µs
GATE	<u> </u>				<u> </u>
l <sub>at</sub>	Gate trigger current	V <sub>D</sub> =6V	25	200	mA
V gt	Gate trigger voltage	V <sub>D</sub> =6V	25	3.0	V
I <sub>H</sub>	Holding current	V <sub>D</sub> =6V, gate open circuit	25	600	mA
I <sub>L</sub>	Latching current	V <sub>D</sub> =6V	25	1000	mA
		1.0			
MOUNTI R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per module		0.11 0.055	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, per arm per module		0.13 0.065	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per arm per module		0.04 0.02	°C/W
Тj	Max. junction temperature			125	°C
T stg	Storage temperature			-40 150	°C
V <sub>ISOL</sub>	Insulation test voltage,RMS	F=50Hz, 1min		3.0	KV
M1	Mounting torque			5 ± 15%	Nm
M2	Terminal connection torque			12 ± 15%	Nm
W	Weight (Approx.)			650	gm

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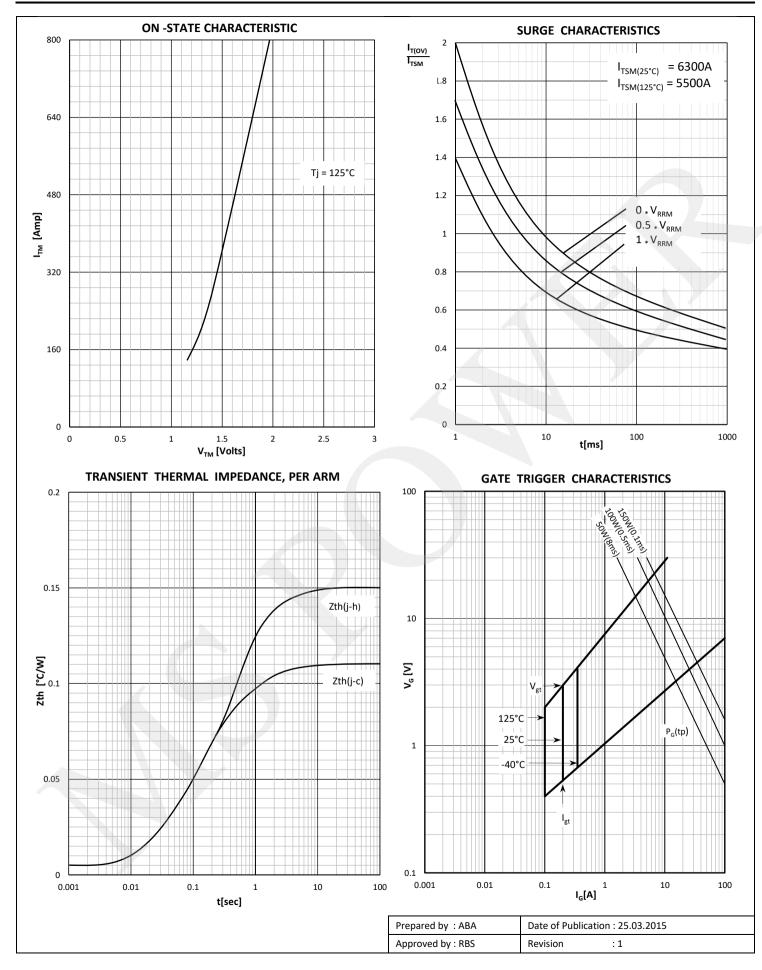
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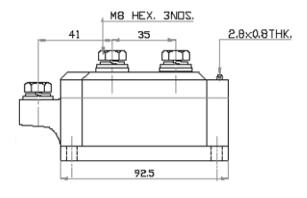


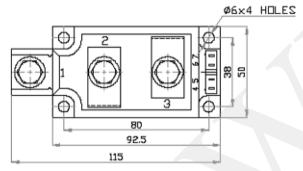


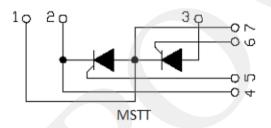
## **MS TT200**



#### **Outline**







#### **MS Power GmbH**

Mergenthalerallee 79-81 65760 Eschborn, Germany Web: www.mspowergroup.com Mail: info@mspowergroup.de

### Sales & Enquiry:

sales@mspowergroup.de
Technical Support:
solution@mspowergroup.de

After sales Service: service@mspowergroup.de

Phone: +49 (0) 6196/7768 666 Fax: +49 (0) 6196/7757 888



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