MS T2115





Key Parameters

 $\begin{array}{lll} V_{DRM} \, / \, V_{RRM} & = 4500 V \\ I_{T(AV)} & = 2115 A \\ I_{TSM} & = 33 k A \\ V_{T(TO)} & = 1.13 V \\ r_{T} & = 0.275 m \Omega \end{array}$

Features

- Full blocking capability over wide temperature range
- High Surge current capability
- Hermetic metal case with ceramic insulator

Applications

- Battery Chargers
- Medical Equipment
- UPS
- Power Supplies
- Motor control
- Controlled Rectifiers
- Transportation
- Induction Heating
- Welding

Ordering Information

MST	2115	С	ХX
Phase Control Thyristor	Current Code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V_{DRM}/V_{RRM}
Order Code MS T2115C45: 4500V V _{DRM} , V _{RRM} , 26mm clamp height capsule thyristor		nyristor	

Prepared by : ABA	Date of Publication	n : 25.03.2015
Approved by : RBS	Revision	:1

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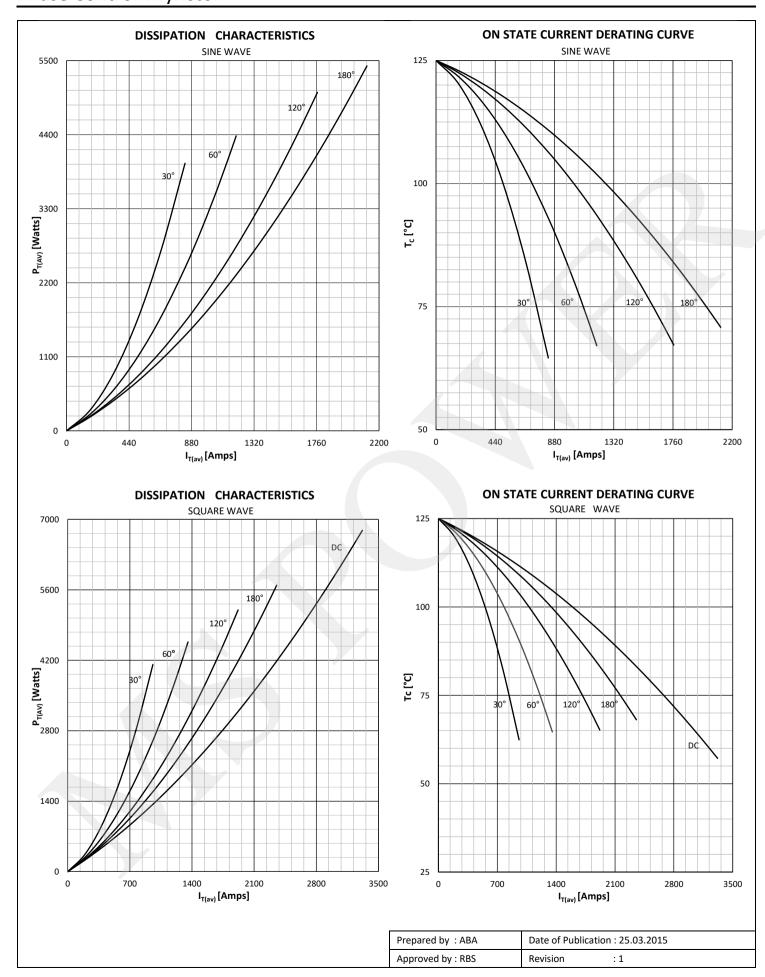


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	3600 - 4500	V
V RSM	Non-repetitive peak reverse voltage		125	3700 - 4600	V
V DRM	Repetitive peak off-state voltage		125	3600 - 4500	V
I RRM	Repetitive peak reverse current	V= V RRM	125	250	mA
I DRM	Repetitive peak off-state current	V= V DRM	125	250	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, T _c =70°C, Double side cooled		2115	Α
I RMS	RMS on-state current	T _c =70°C, Double side cooled		3320	Α
	_	Sine wave, 10 ms	25	33000	Α
I TSM	Surge on-state current	Without reverse voltage	125	32000	А
	l² t	Sine wave, 10 ms	25	5445 x 10 ³	A ² s
l² t		Without reverse voltage	125	5120 x 10 ³	A²s
Vт	On-state voltage	On-state current = 2000A	125	1.70	V
V T(TO)	Threshold voltage		125	1.13	V
rт	On-state slope resistance		125	0.275	mΩ
SWITCH	ING				
di/dt	Critical rate of rise of on-state current		125	100	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 80\%V_{DRM}$	125	1000	V/µs
GATE			1		
I gt	Gate trigger current	V _D =6V	25	200	mA
V gt	Gate trigger voltage	V _D =6V	25	3.0	V
I _H	Holding current	V _D =6V, gate open circuit	25	800	mA
I _L	Latching current	V _D =6V	25	1000	mA
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, Double side cooled		0.010	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, Double side cooled		0.0115	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, Double side cooled		0.002	°C/W
Тj	Max. junction temperature			125	°C
T stg	Storage temperature			-40 125	°C
М	Clamping Force			40 - 45	kN
W	Weight (Approx.)			1500	gm

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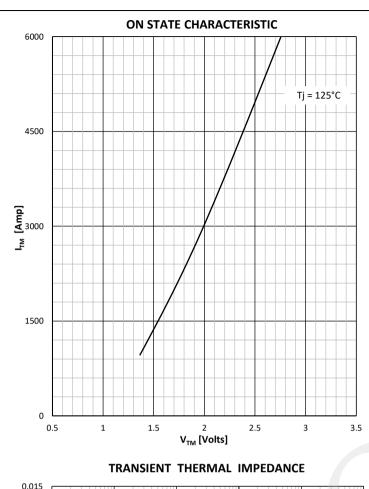
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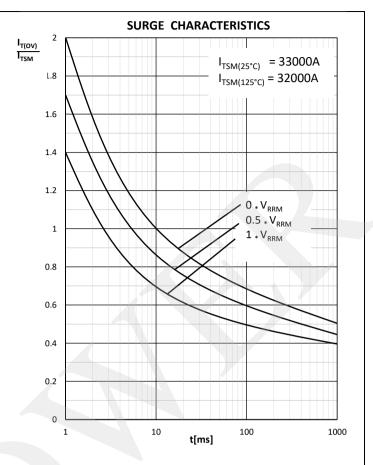


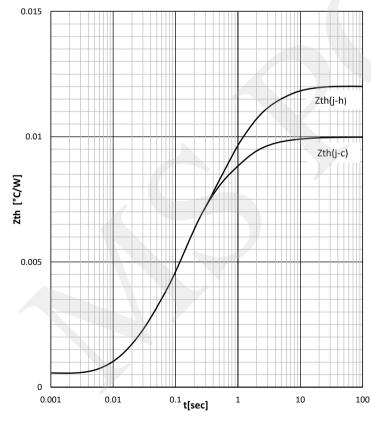


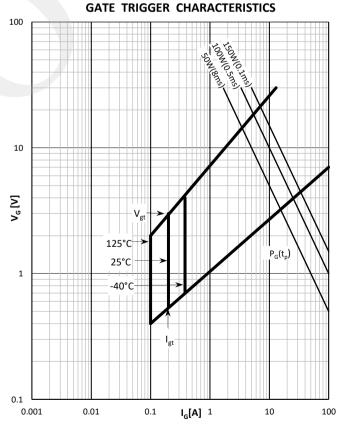
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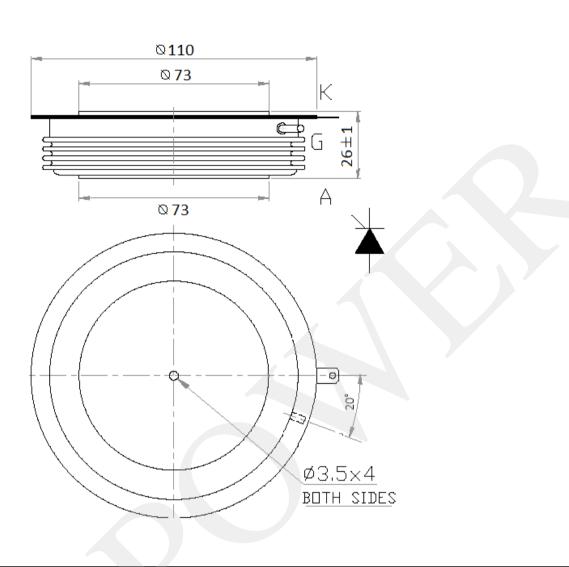


Prepared by : ABA	Date of Publication	n : 25.03.2015
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Outline



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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l	Prepared by : ABA	Date of Publication : 25.03.2015		
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