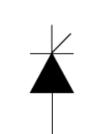
**MS T175** 





#### **Key Parameters**

Vdrm / Vrrm	= 1600V
It(AV)	= 175A
ITSM	= 5600A
V <sub>T(TO)</sub>	= 1.03V
rΤ	= 1.30mΩ

#### Features

- Full blocking capability over wide temperature range
- Pressure contacts technology for high reliability'
- Highest robustness

- ApplicationsPower SuppliesDC motor control
- **Controlled Rectifiers**
- AC switch

# **Ordering Information**

MS T	175	S	ХХ	U	К
Phase Control Thyristor	Current Code	Stud / Flat Base Version	Voltage Code Code X 100 = V <sub>DRM</sub> /V <sub>RRM</sub>	Stud Threads U = 3/4" UNF	Technology K = Pressure Contact Technology
Order Code M	S T175S1	6UK : 1600V VDRI	M, V <sub>RRM</sub> , Stud base Thyristo	r with 3/4" UNF	threads
			Prepare	d by :ABA	Date of Publication : 25.03.2015
			Approve	d by : RBS	Revision : 0



**MS T175** 

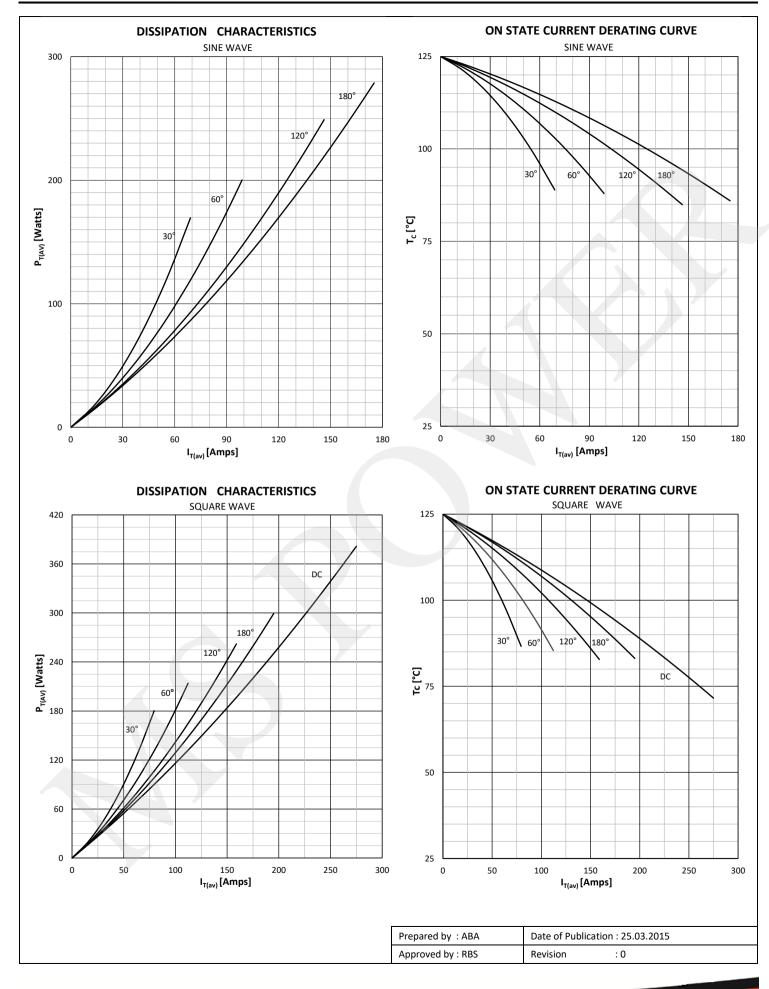


Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG			·	
V RRM	Repetitive peak reverse voltage		125	200 - 1600	V
V RSM	Non-repetitive peak reverse voltage		125	300 - 1700	V
V drm	Repetitive peak off-state voltage		125	200 - 1600	V
I RRM	Repetitive peak reverse current	V= V RRM	125	50	mA
I DRM	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> =85°C		175	А
I RMS	RMS on-state current			275	А
	• • • •	Sine wave, 10 ms	25	5600	А
I TSM	Surge on-state current	Without reverse voltage	125	4600	A
l <sup>2</sup> t l <sup>2</sup> t		Sine wave, 10 ms	25	156800	A²s
	l <sup>2</sup> t	Without reverse voltage	125	105800	A²s
Vт	On-state voltage	On-state current = 550A	125	1.75	V
V T(TO)	Threshold voltage		125	1.03	V
rт	On-state slope resistance		125	1.30	mΩ
SWITCH	ING				
di/dt	Critical rate of rise of on-state current		125	200	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\% V_{DRM}$	125	1000	V/µs
GATE					
l <sub>gt</sub>	Gate trigger current	V <sub>D</sub> =6V	25	200	mA
V <sub>gt</sub>	Gate trigger voltage	V <sub>D</sub> =6V	25	3.0	V
Iн	Holding current	V <sub>D</sub> =6V, gate open circuit	25	600	mA
I L	Latching current	V <sub>D</sub> =6V	25	1000	mA
MOUNT	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case		0.14	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case		0.16	°C/W
R th(c-h)	Thermal impedance	Case to heatsink		0.04	°C/W
Тj	Max. junction temperature			125	°C
	Storage temperature			-40 125	°C
T stg				2.5 - 2.77	KgM
	Mounting torque				

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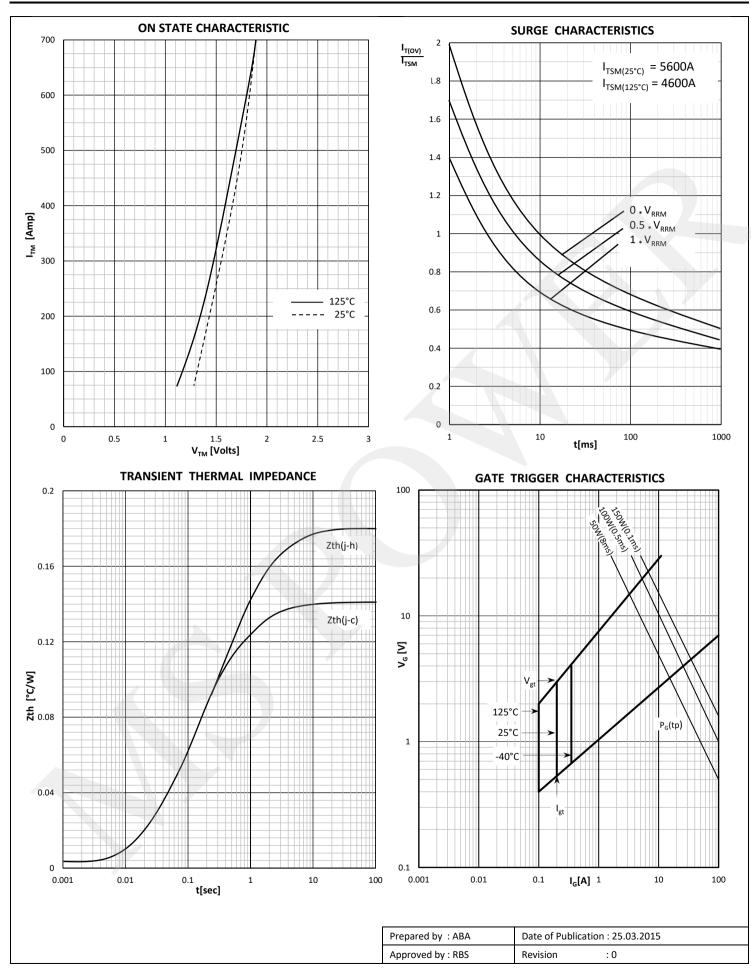
**MS T175** 





**MS T175** 

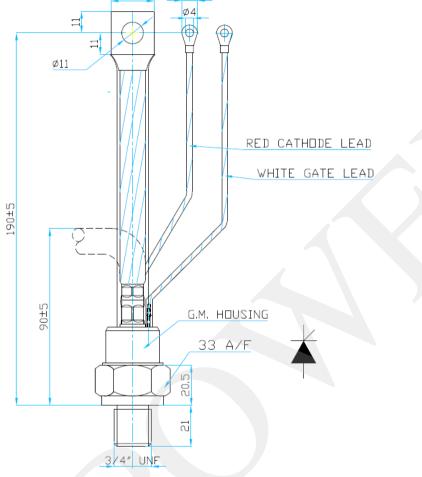




Outline

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**MS T175** 



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-the conclusion of Quality Agreements;

-to establish joint measures of an ongoing product survey, and that we may make delivery depended on the realization of any such measures.

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