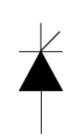
MS T285





Key Parameters

Vdrm / Vrrm	= 800V
IT(AV)	= 285A
ITSM	= 8500A
Vt(to)	= 0.88V
rΤ	= 0.47mΩ

Features

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

- ApplicationsPower Supplies
- . DC motor control
- **Controlled Rectifiers**
- AC switch

Ordering Information

MS T	285	S	ХХ	U	К
Phase Control Thyristor	Current Code	Stud / Flat Base Version	Voltage Code Code X 100 = V _{DRM} /V _{RRM}	Stud Threads U = 3/4" UNF	Technology K = Pressure Contact Technology
Order Code MS T285S08UK : 800V VDRM, VRRM, Stud base Thyristor with 3/4" UNF threads					
			Prepared b	y:ABA D	Date of Publication : 25.03.2015
			Approved b	by : RBS R	evision : 0

Technical Information Phase Control Thyristor

MS T285



Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	200 - 800	V
V RSM	Non-repetitive peak reverse voltage		125	300 - 900	V
V drm	Repetitive peak off-state voltage		125	200 - 800	V
I RRM	Repetitive peak reverse current	V= V RRM	125	50	mA
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 _c =85°C		285	А
I RMS	RMS on-state current			448	А
		Sine wave, 10 ms	25	8500	А
I TSM	Surge on-state current	Without reverse voltage	125	7850	А
		Sine wave, 10 ms	25	361000	A²s
l² t	² t	Without reverse voltage	125	308000	A²s
νт	On-state voltage	On-state current = 900A	125	1.35	V
V T(TO)	Threshold voltage		125	0.88	V
rт	On-state slope resistance		125	0.47	mΩ
SWITCH					
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			120	1000	1/40
GATE 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	600	mA
	Latching current		25	1000	mA
			20	1000	
R th(j-c)	Thermal impedance, sin 180°	Junction to case		0.115	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case		0.13	°C/W
R th(c-h)	Thermal impedance	Case to heatsink		0.04	°C/W
()	Max. junction temperature			125	°C
Τi					
T j T stg	Storage temperature			-40 125	°C
T j T stg M	Storage temperature Mounting torque			-40 125 2.5 - 2.77	°C KgM

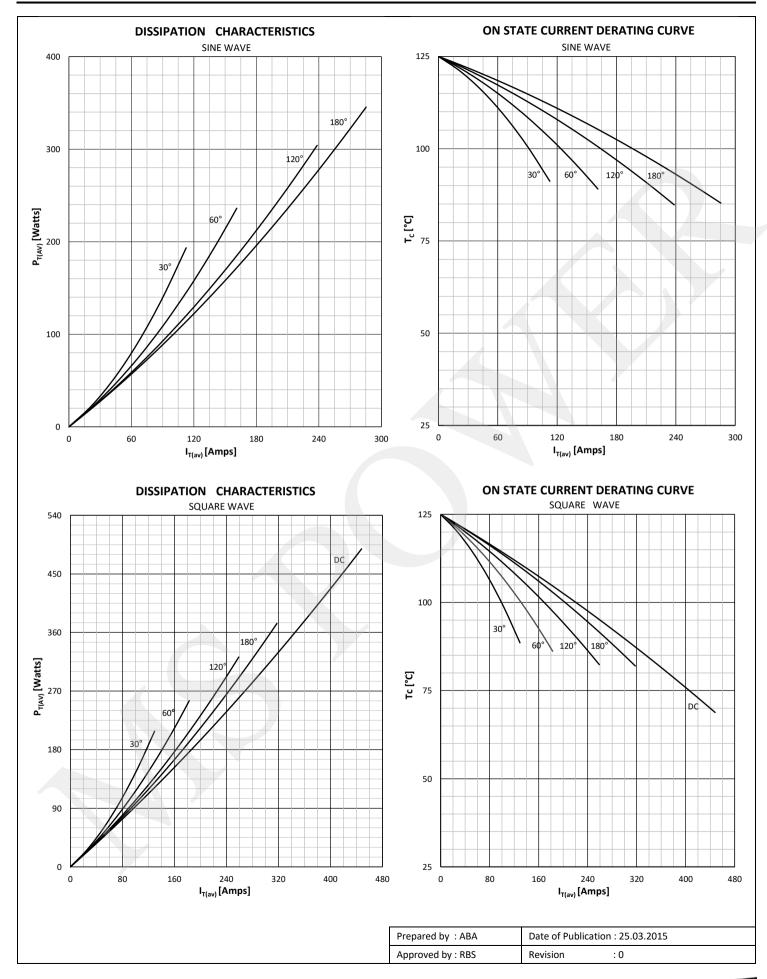
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MS T285



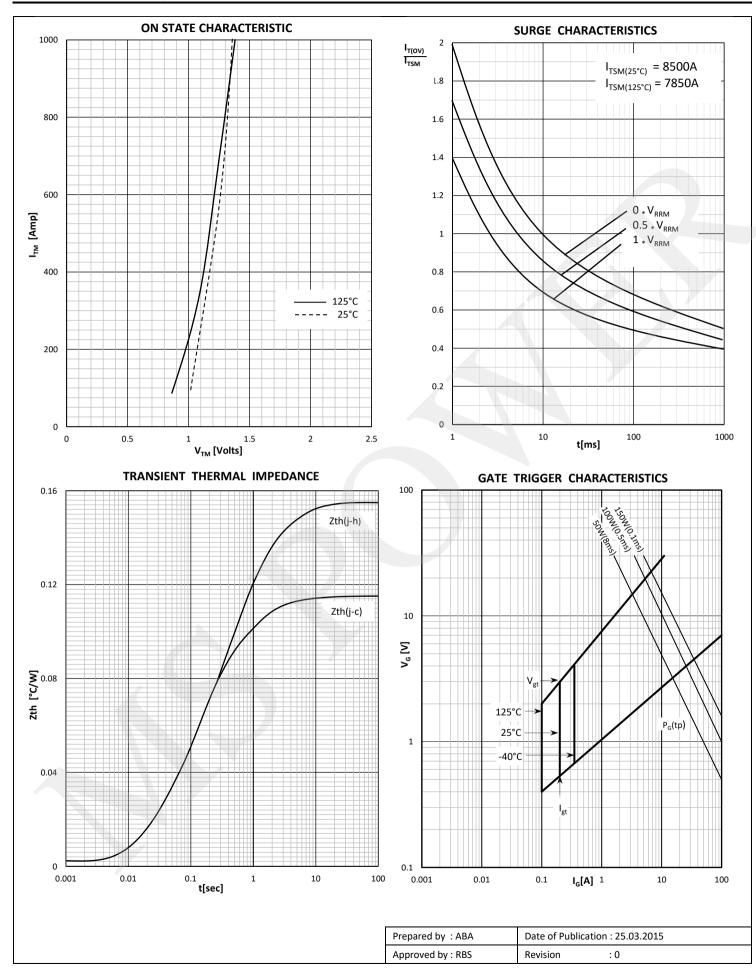


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Technical Information Phase Control Thyristor

MS T285

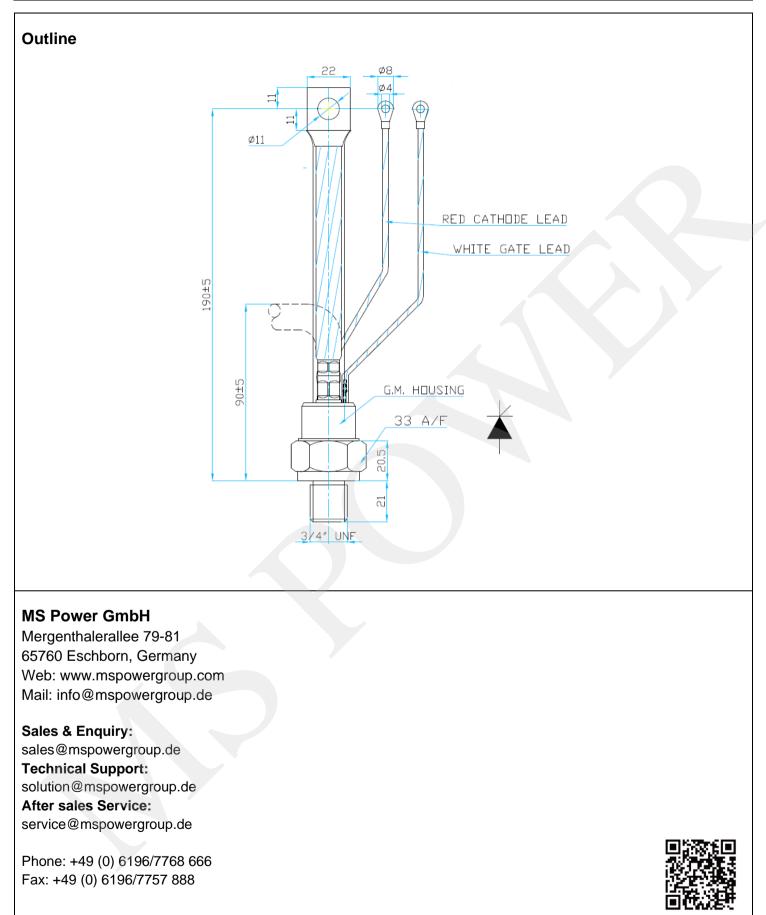




Technical Information Phase Control Thyristor

MS T285





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А	Approved by : RBS	Revision	: 0

MS T285



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-to perform joint Risk and Quality Assessments;

-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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