



Features

- Full blocking capability over wide temperature range
- Hard soldered joints for high reliability

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

Ordering Information

MS T	56	S	ХХ	U	В		
Phase Control Thyristor	Current Code	Stud / Flat Base Version	Voltage Code Code X 100 = V _{DRM} /V _{RRM}	Stud Threads U = 1/4" UNF M = M8 x 1.25	Technology B = Solder Bond Technology		
Order Code MS T56S16UB : 1600V V _{DRM} , V _{RRM} , Stud base Thyristor with 1/4" UNF threads							
			Prepared by : A	.BA Date	of Publication : 25.03.2015		

Technical Information Phase Control Thyristor

MS T56

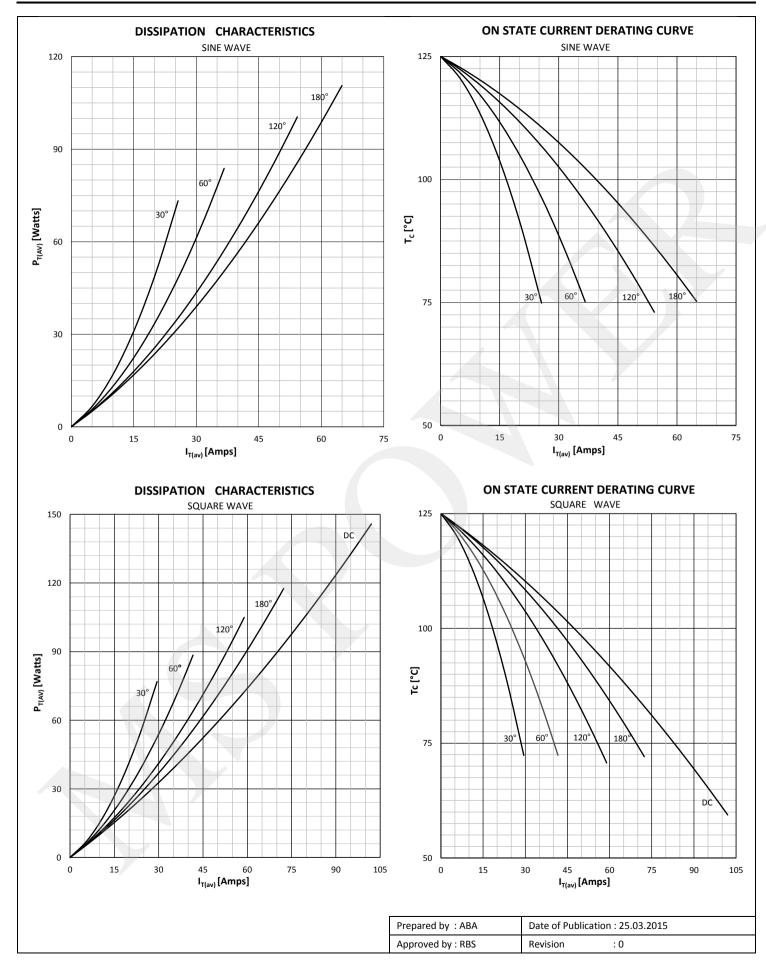


Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	200 - 1600	V
V RSM	Non-repetitive peak reverse voltage		125	300 - 1700	V
V drm	Repetitive peak off-state voltage		125	200 - 1600	V
I RRM	Repetitive peak reverse current	V= V RRM	125	10	mA
I DRM	Repetitive peak off-state current	V= V drm	125	10	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, T _c =85°C 180° sin ,50 Hz, T _c =75°C		55 65	A
I RMS	RMS on-state current	T _c =75°C		102	А
LTOU	Surgo on state surroat	Sine wave, 10 ms	25	1100	А
I TSM	Surge on-state current	Without reverse voltage	125	1000	А
l² t		Sine wave, 10 ms Without reverse voltage	25	6050	A ² s
	l² t		125	5000	A²s
Vт	On-state voltage	On-state current = 200A	125	1.95	V
V T(TO)	Threshold voltage		125	0.95	V
rт	On-state slope resistance		125	4.7	mΩ
SWITCH	ling			11	
di/dt	Critical rate of rise of on-state current		125	150	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\% V_{DRM}$	125	1000	V/µs
GATE					
l _{gt}	Gate trigger current	V _D =6V	25	150	mA
V _{gt}	Gate trigger voltage	V _D =6V	25	3.0	V
Lн	Holding current	$V_D=6V$, gate open circuit	25	200	mA
I L	Latching current	V _D =6V	25	400	mA
MOUNT	ING				
R th(j-c)	Thermal impedance, sin 180°	Junction to case		0.45	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case		0.52	°C/W
R th(c-h)	Thermal impedance	Case to heatsink		0.20	°C/W
Тj	Max. junction temperature			125	°C
T stg	Storage temperature			-40 125	°C
М	Mounting torque			4	NM
	Weight (Approx.)			38	gm

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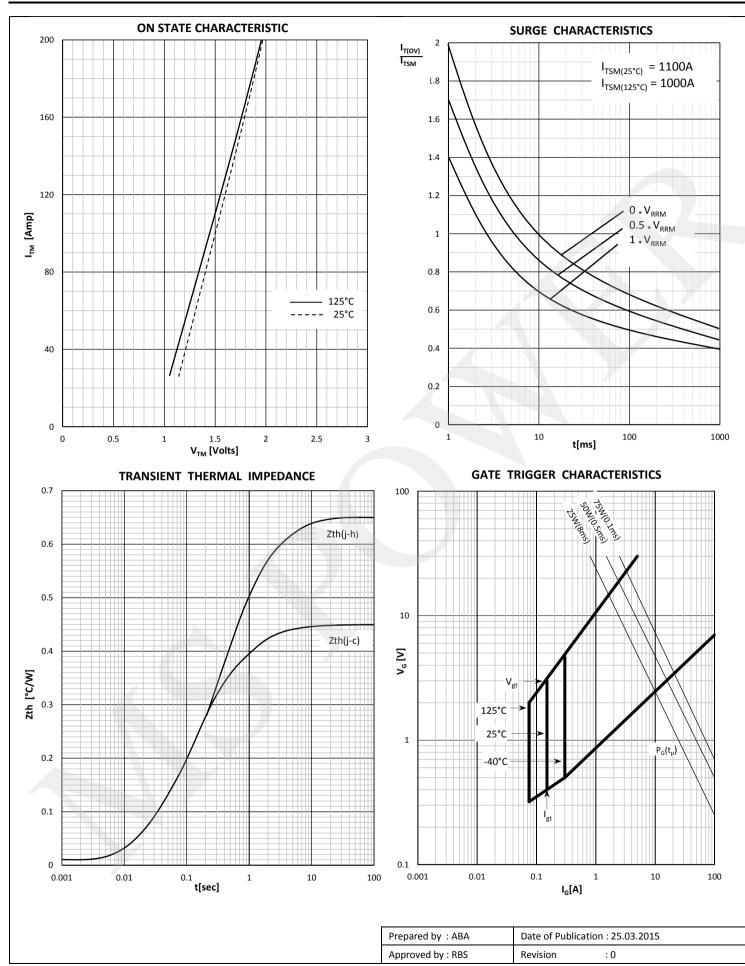




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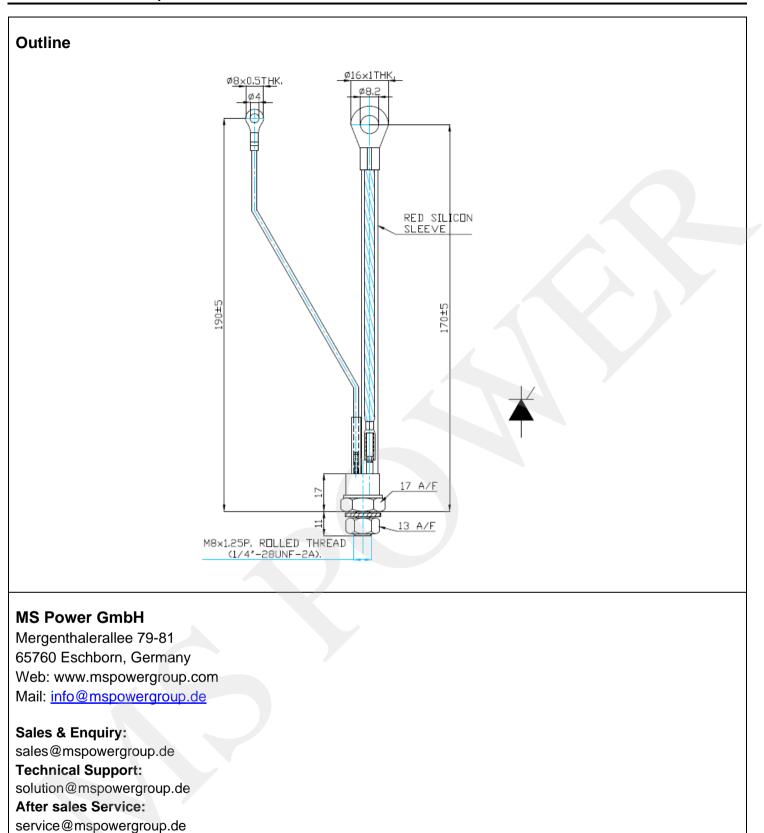




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