



Key Parameters

V _{DRM} / V _{RRM}	= 800V
I _{T(AV)}	= 285A
ITSM	= 8500A
V _{T(TO)}	= 0.88V
r _T	= 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

MST	285	S	XX	U	К
Phase Control Thyristor	Current Code	Stud / Flat Base Version	Voltage Code Code X 100 = V _{DRM} /V _{RRI}	Stud Threads U = 3/4" UNF	Technology K = Pressure Contact Technology
Order Code M	Order Code MS T285S08UK : 800V V _{DRM} , V _{RRM} , Stud base Thyristor with 3/4" UNF threads				
			Prepar	ed by :ABA	Date of Publication : 25.03.2015
			Approv	red by : RBS	Revision : 0

Technical Information Phase Control Thyristor

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	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKIN	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
I DRM	Repetitive peak off-state current	V= V DRM	125	50	mA
CONDUC	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
		Sing wave, 10 mg	25	361000	A²s
l² t	l² 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
ew/ITCUI					
di/dt	Critical rate of rise of on-state current		125	200	A/us
dy/dt		$V_{DD} = 67\% V_{DD} u$	125	1000	V/us
	Childer falle of hise of on-state voltage	VDR - OT 70 VDRM	125	1000	v/µ3
GAIE	Coto triagor current	V -6V	25	200	m۸
l _{gt}			25	200	MA V
V gt	Helding europt		25	5.0	v mA
I H			25	1000	mA
· L		vD-ov	23	1000	IIIA
MOUNTIN	NG			0.445	*044/
R th(j-c)	Thermal Impedance, sin 180 ²	Junction to case		0.115	°C/W
R th(j-c)	Thermal Impedance, rec120			0.13	°C/W
R th(c-h)				0.04	°C/W
Lj	Max. Junction temperature			125	-0
-	Storage temperature			-40 125	-0
T stg					
T stg	Mounting torque			2.5 - 2.77	KgM

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Outline ØB 24 = Ø11 RED CATHODE LEAD WHITE GATE LEAD S106 10 T O 6 G.M. HOUSING 33 A/F 10 i, 3/4" UNF **MS Power GmbH** www.mspowergroup.com Mergenthalerallee 23A 65760 Eschborn, Deutschland E-mail : info@mspowergroup.de Date of Publication : 25.03.2015 Prepared by : ABA Approved by : RBS Revision : 0

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