# **MS T2835**





## **Key Parameters**

Vdrm / Vrrm	= 800V
T(AV)	= 2835A
Тѕм	= 37kA
V <sub>T(TO)</sub>	= 0.80V
rт	= 0.12mΩ

#### 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**

•			
MS T	2835	С	XX
Phase Control Thyristor	Current Code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V <sub>DRM</sub> /V <sub>RRM</sub>
Order Code MS T283	5C08: 800V VDRM,	/ <sub>RRM</sub> , 26mm clamp height capsule t	hyristor
		Durandha ADA	
		Prepared by : ABA	Date of Publication : 25.03.201
		Approved by : RBS	Revision : 0

# Technical Information Phase Control Thyristor

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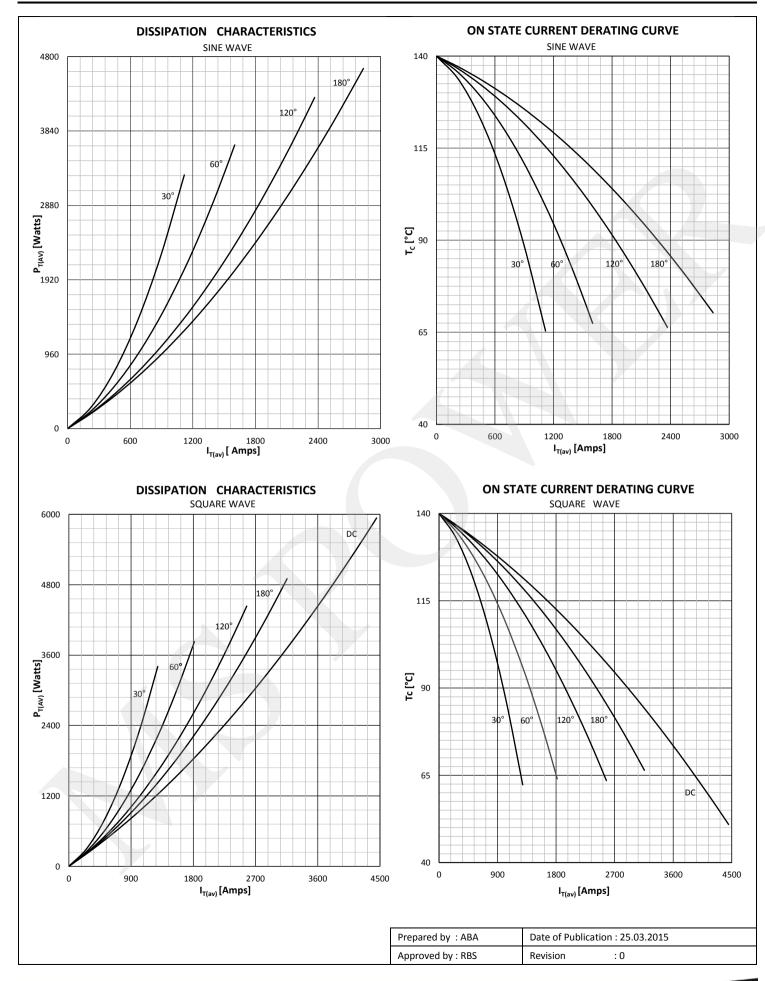


Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		140	200 - 800	V
V RSM	Non-repetitive peak reverse voltage		140	300 - 900	V
V drm	Repetitive peak off-state voltage		140	200 - 800	V
I RRM	Repetitive peak reverse current	V= V RRM	140	100	mA
I DRM	Repetitive peak off-state current	V= V drm	140	100	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, $T_c=70$ °C, Double side cooled 180° sin ,50 Hz, $T_c=79$ °C, Double side cooled		2835 2585	A
I RMS	RMS on-state current			4451	А
	<b>2</b>	Sine wave, 10 ms	25	37000	А
I TSM	Surge on-state current	Without reverse voltage	140	36000	А
	l² t	Sine wave, 10 ms Without reverse voltage	25	6845 x 10 <sup>3</sup>	A²s
l² t			140	6480 x 10 <sup>3</sup>	A²s
νт	On-state voltage	On-state current = 6000A	140	1.52	V
V T(TO)	Threshold voltage		140	0.80	V
rт	On-state slope resistance		140	0.12	mΩ
SWITCH	ING			I I	
di/dt	Critical rate of rise of on-state current		140	200	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\% V_{DRM}$	140	500	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
MOUNTI	NG		1		
R th(j-c)	Thermal impedance, sin 180°	Junction to case, Double side cooled		0.015	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, Double side cooled		0.01725	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, Double side cooled		0.006	°C/W
Тj	Max. junction temperature			140	°C
T stg	Storage temperature			-40 140	°C
М	Clamping Force			20 - 24	kN
W	Weight (Approx.)			500	gm

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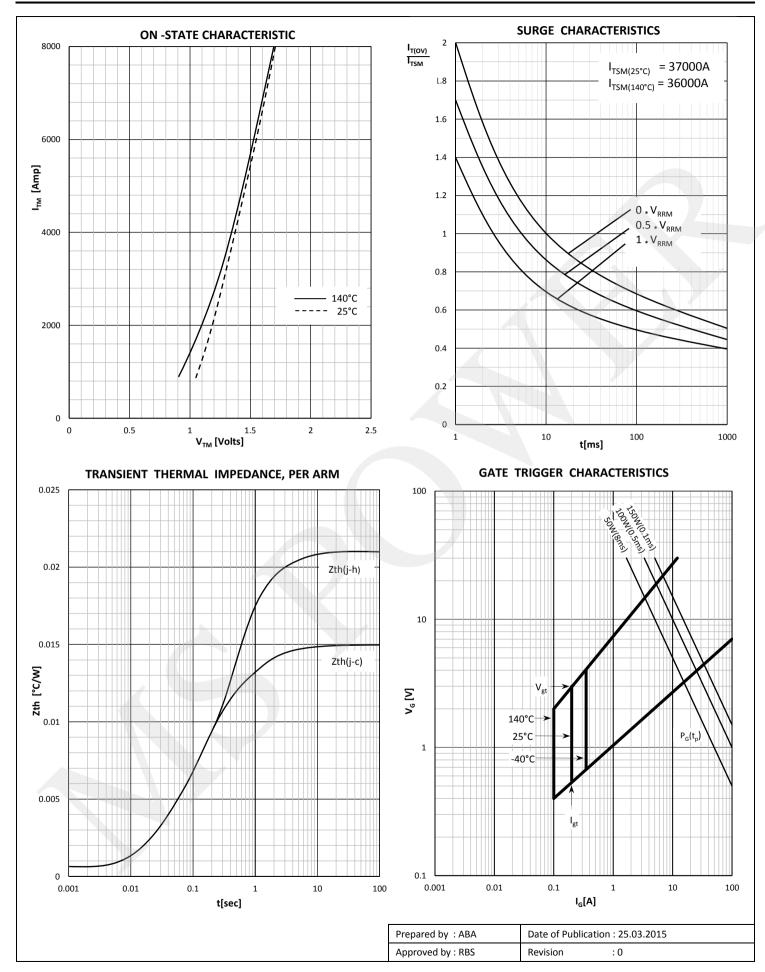




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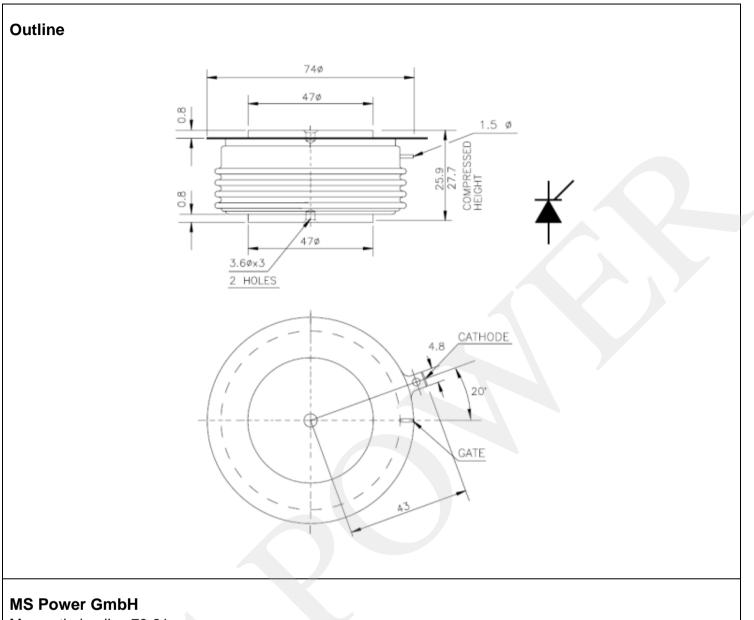




## Technical Information Phase Control Thyristor

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