MS T1395





Key Parameters

Vdrm / Vrrm	= 1800V
T(AV)	= 1395A
Тѕм	= 24.0kA
V _{T(TO)}	= 0.84V
rт	= 0.195mΩ

Features

- Full blocking capability over wide temperature range
- High Surge current capability
- Hermetic metal case with ceramic insulator

- ApplicationsBattery Chargers
- Medical Equipment .
- UPS
- Power Supplies
- Motor control .
- **Controlled Rectifiers**
- Transportation
- Induction Heating
- Welding

Ordering Information

MS T	1395	C	XX	
Phase Control Thyristor	Current Code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V _{DRM} /V _{RRM}	
Order Code MS T1395C18 : 1800V VDRM, VRRM, 26mm clamp height capsule thyristor				

Prepared by : ABA	Date of Publication	n : 25.03.2015
Approved by : RBS	Revision	:0



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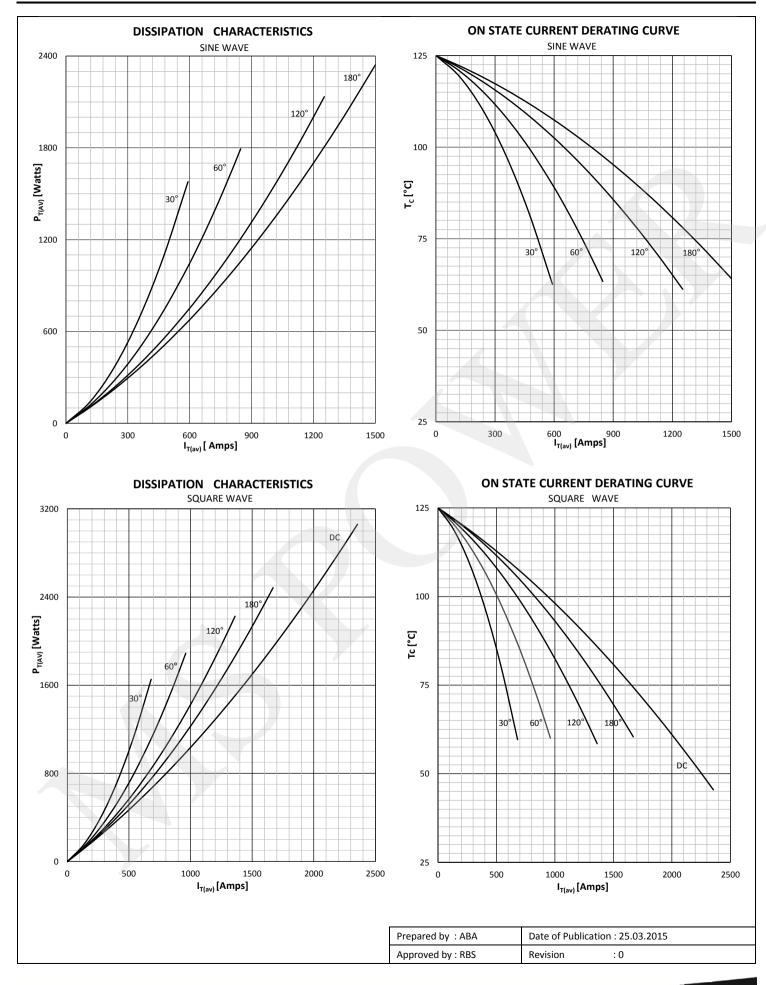


Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	200 - 1800	V
V RSM	Non-repetitive peak reverse voltage		125	300 - 1900	V
V drm	Repetitive peak off-state voltage		125	200 - 1800	V
I RRM	Repetitive peak reverse current	V= V rrm	125	150	mA
I DRM	Repetitive peak off-state current	V= V drm	125	150	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, $T_c=70^{\circ}$ C, Double side cooled 180° sin ,50 Hz, $T_c=64^{\circ}$ C, Double side cooled		1395 1500	Α
I RMS	RMS on-state current	T _c =64°C, Double side cooled		2355	А
1		Sine wave, 10 ms	25	24000	А
I TSM	Surge on-state current	Without reverse voltage	125	22000	Α
l² t	l² t	Sine wave, 10 ms Without reverse voltage	25	2880 x 10 ³	A²s
			125	2420 x 10 ³	A²s
νт	On-state voltage	On-state current = 3000A	125	1.55	V
V t(to)	Threshold voltage		125	0.84	V
rт	On-state slope resistance		125	0.195	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 _{gt}	Gate trigger current	V _D =6V	25	250	mA
V _{gt}	Gate trigger voltage	V _D =6V	25	3.0	V
Iн	Holding current	V _D =6V, gate open circuit	25	600	mA
I L	Latching current	V _D =6V	25	1000	mA
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, Double side cooled		0.026	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, Double side cooled		0.029	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, Double side cooled		0.005	°C/W
Тj	Max. junction temperature			125	°C
T stg	Storage temperature			-40 125	°C
М	Clamping Force			20 - 24	kN
W	Weight (Approx.)			500	gm

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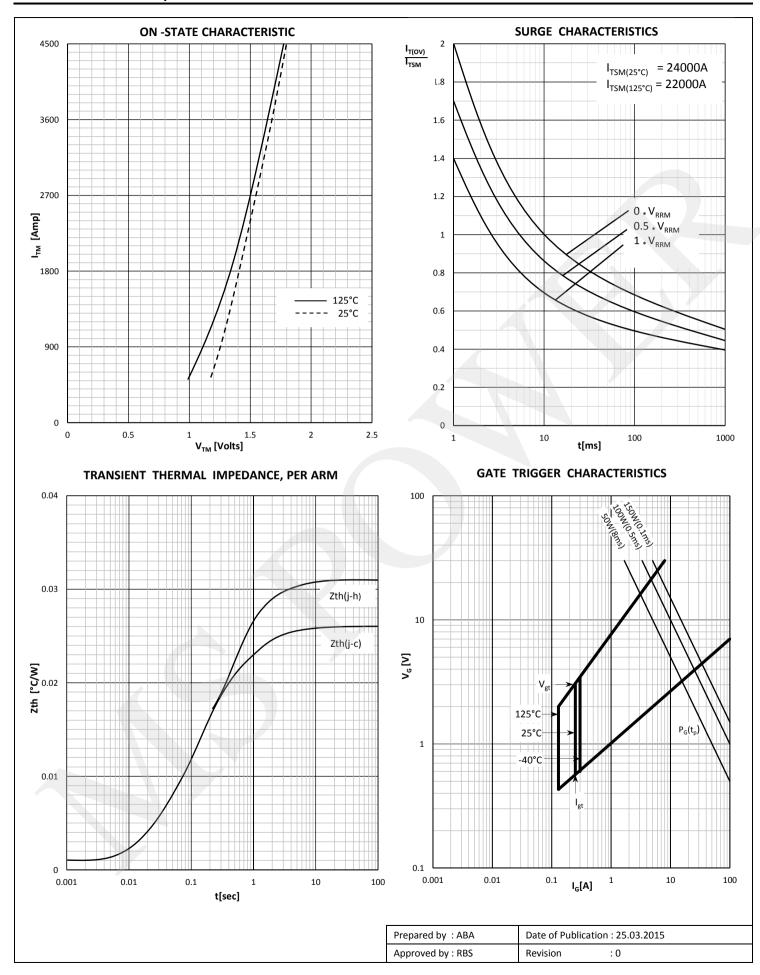
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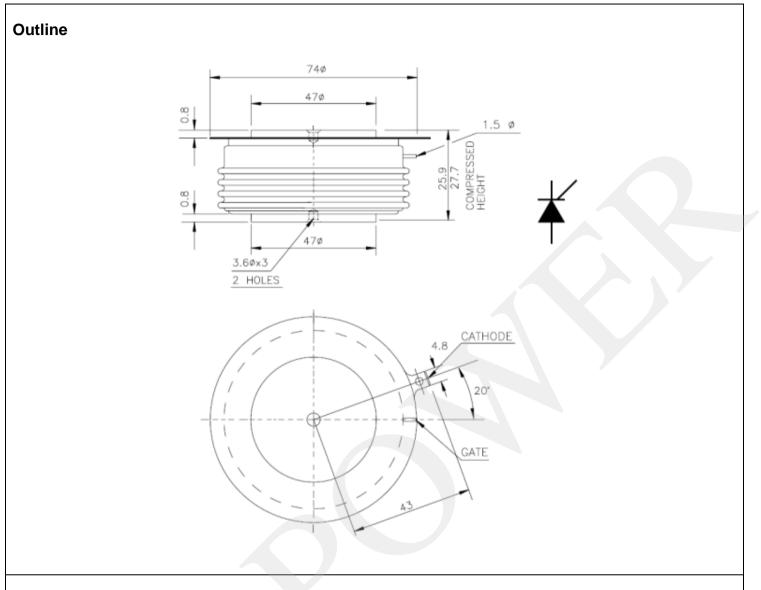
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Prepared by : ABADate of Publication : 25.03.2015Approved by : RBSRevision : 0

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Prepared by : ABA Date of Publication : 25.03.201	
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