MS T2635





Key Parameters

VDRM / VRRM = 1800VI_{T(AV)} = 2635A=38kA**I**TSM $V_{T(TO)}$ = 0.735 V $= 0.163 m\Omega$ rт

Features

- Full blocking capability over wide temperature
- 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

MST	2635	С	ХX
Phase Control Thyristor	Current Code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V _{DRM} /V _{RRM}
Order Code MS T2635C18: 1800V V _{DRM} , V _{RRM} , 26mm clamp height capsule thyristor			

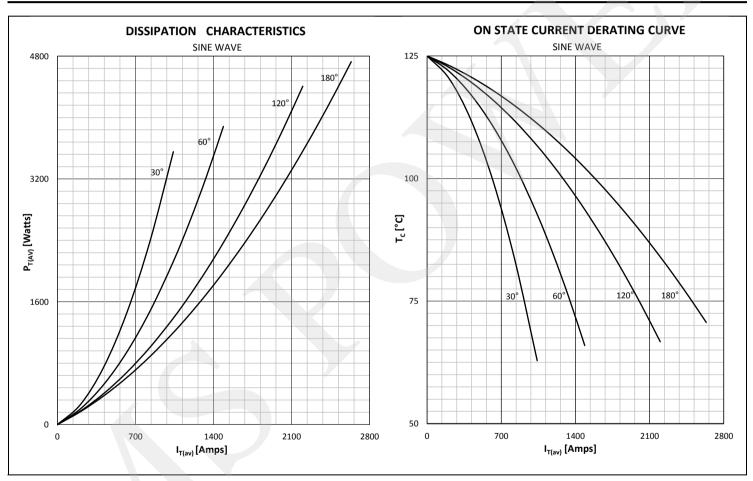
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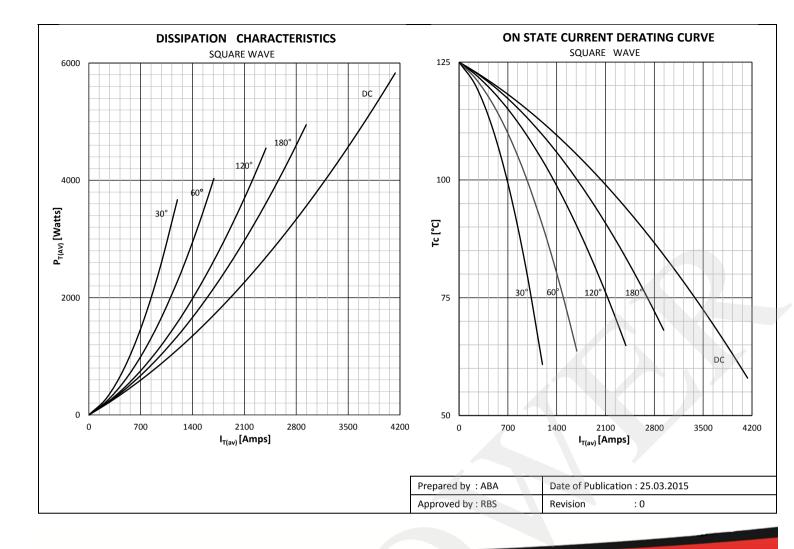


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	1400 - 1800	V
V RSM	Non-repetitive peak reverse voltage		125	1500 - 1900	V
V DRM	Repetitive peak off-state voltage		125	1400 - 1800	V
I RRM	Repetitive peak reverse current	V= V RRM	125	150	mA
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°C, Double side cooled		2635	Α
I RMS	RMS on-state current	T _c =70°C, Double side cooled		4137	А
		Sine wave, 10 ms	25	38000	А
I TSM	Surge on-state current	Without reverse voltage	125	36000	Α
	l² t	Sing ways, 10 mg	25	7220 x 10 ³	A²s
l² t		Sine wave, 10 ms Without reverse voltage	125	6480 x 10 ³	A²s
Vт	On-state voltage	On-state current = 3000A	125	1.30	V
V T(TO)	Threshold voltage		125	0.735	V
rт	On-state slope resistance		125	0.163	mΩ
SWITCH	ING		<u>I</u>	1	
di/dt	Critical rate of rise of on-state current		125	100	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\%V_{DRM}$	125	800	V/µs
GATE					<u>'</u>
l at	Gate trigger current	V _D =6V	25	200	mA
V gt	Gate trigger voltage	V _D =6V	25	3.0	V
1 _H	Holding current	V _D =6V, gate open circuit	25	800	mA
I _L	Latching current	V _D =6V	25	1000	mA
MOUNT	NG		<u>I</u>		
R th(j-c)	Thermal impedance, sin 180°	Junction to case, Double side cooled		0.011	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, Double side cooled		0.013	°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			40 - 48	kN
W	Weight (Approx.)			950	gm

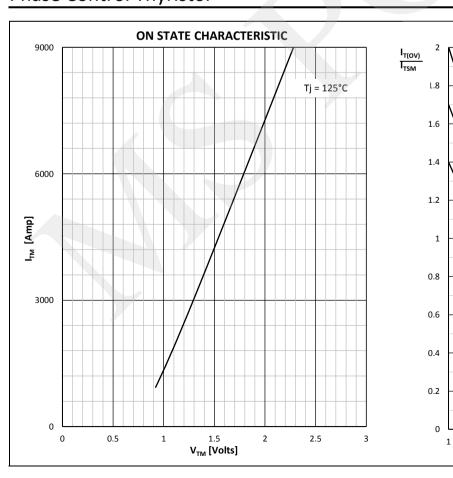
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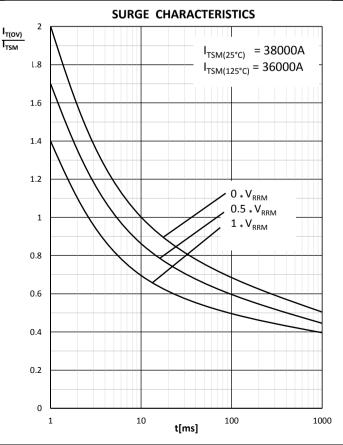


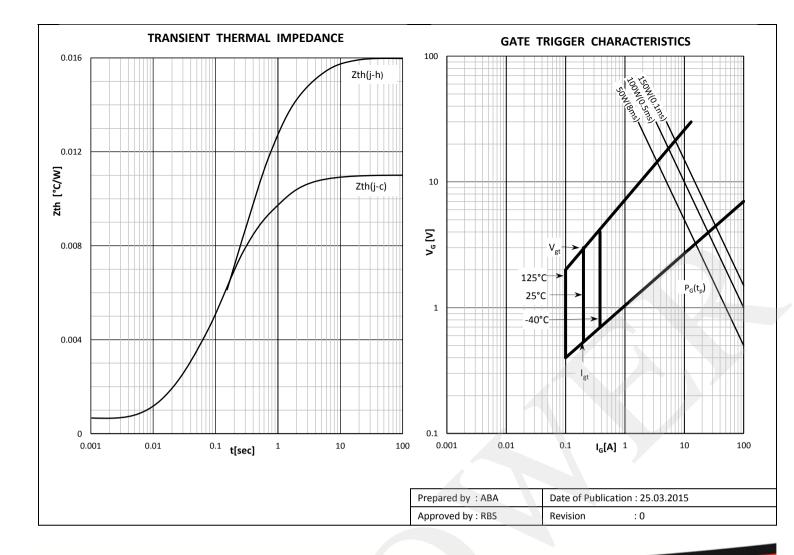






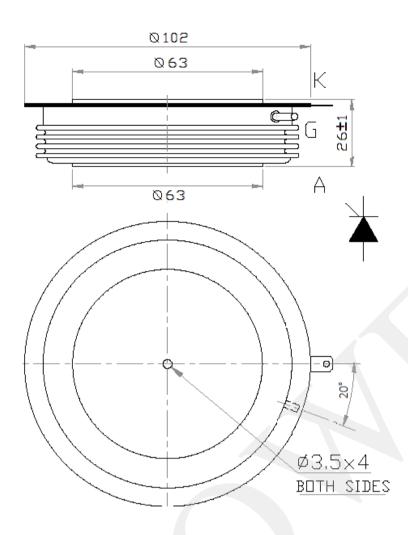








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