MS T3015





Key Parameters

Vdrm / Vrrm	= 1800V
IT(AV)	= 3015A
Ітѕм	= 62kA
V _{T(TO)}	= 0.90V
Гт	$= 0.11 \text{m}\Omega$

Features

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

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

Ordering Information

•			
MS T	3015	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 T301	5C18: 1800V VDRN	۸,V _{RRM} , 26mm clamp height capsu	le thyristor
		Prepared by : AE	BA Date of Publication : 25.03.20
		Approved by : RE	3S Revision : 0

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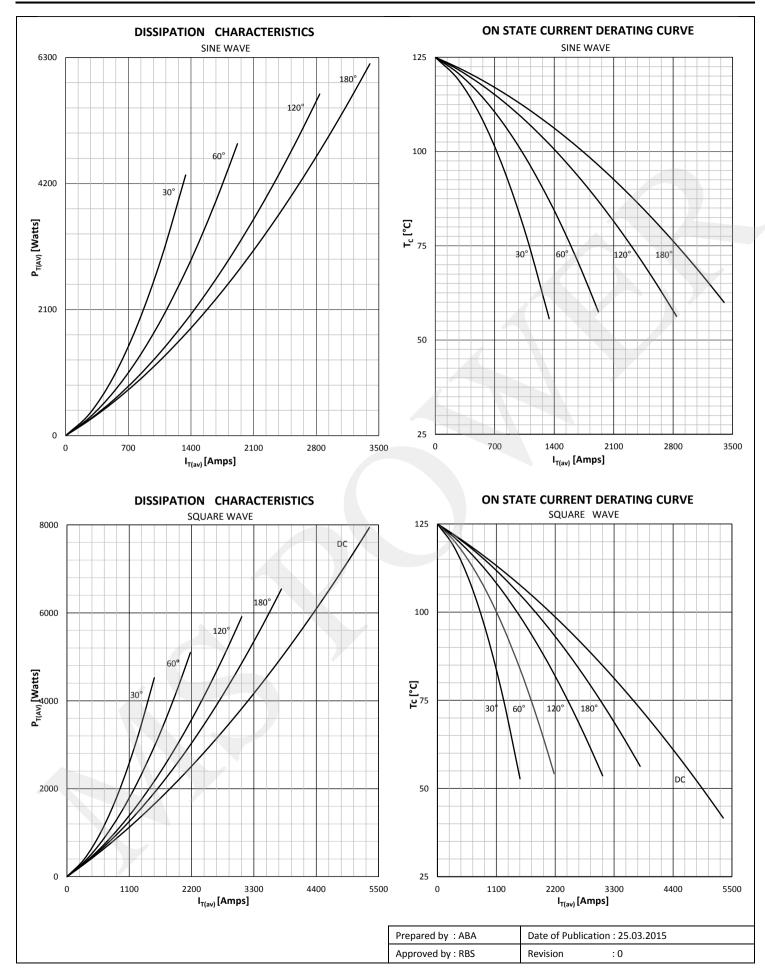


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	400 - 1800	V
V RSM	Non-repetitive peak reverse voltage		125	500 - 1900	V
V drm	Repetitive peak off-state voltage		125	400 - 1800	V
I RRM	Repetitive peak reverse current	V= V RRM	125	250	mA
I DRM	Repetitive peak off-state current	V= V drm	125	250	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 =60°C, Double side cooled		3015 3400	A
I RMS	RMS on-state current	T _c =60°C, Double side cooled		5338	А
1	0	Sine wave, 10 ms	25	62000	А
I TSM	Surge on-state current	Without reverse voltage	125	60000	Α
		Sine wave, 10 ms	25	19220 x 10 ³	A²s
l² t	l ² t	Without reverse voltage	125	18000 x 10 ³	A²s
Vт	On-state voltage	On-state current = 3000A	125	1.23	V
V T(TO)	Threshold voltage		125	0.90	V
rт	On-state slope resistance		125	0.11	mΩ
SWITCH					
di/dt	Critical rate of rise of on-state current	For 67%V_{DRM} to 5000A, Gate 30V/10 $\Omega,$ tr<0.5 μs	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	200	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		0.010	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, Double side cooled		0.0115	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, Double side cooled		0.003	°C/W
Тj	Max. junction temperature			125	°C
T stg	Storage temperature			-40 125	°C
М	Clamping Force			50 - 62	kN
W	Weight (Approx.)			1450	gm

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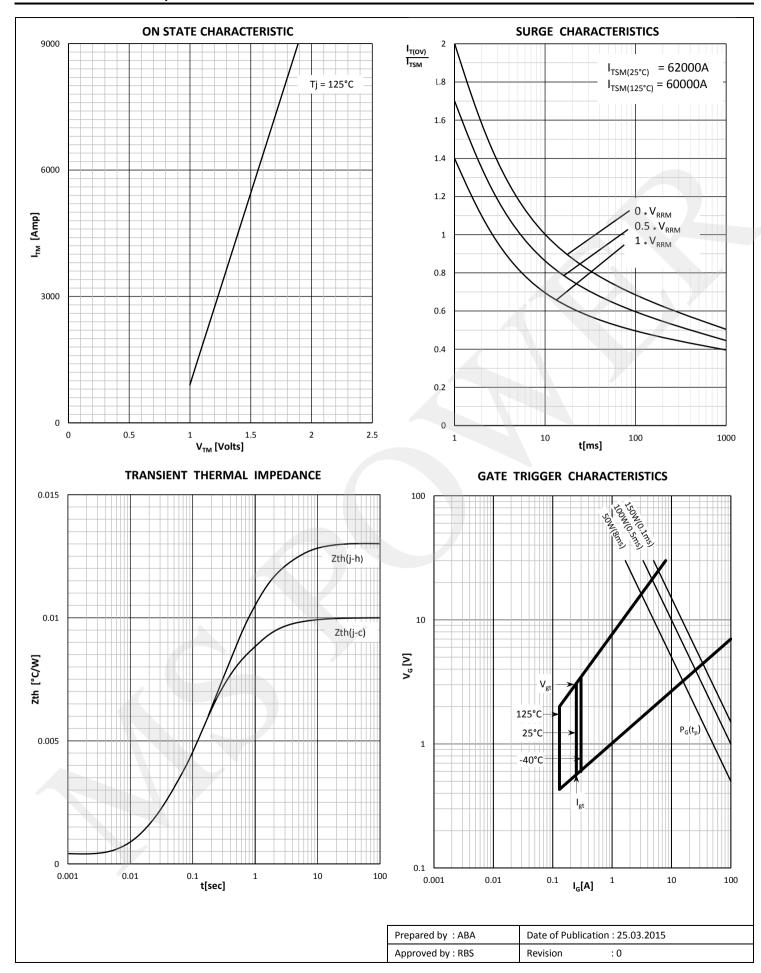
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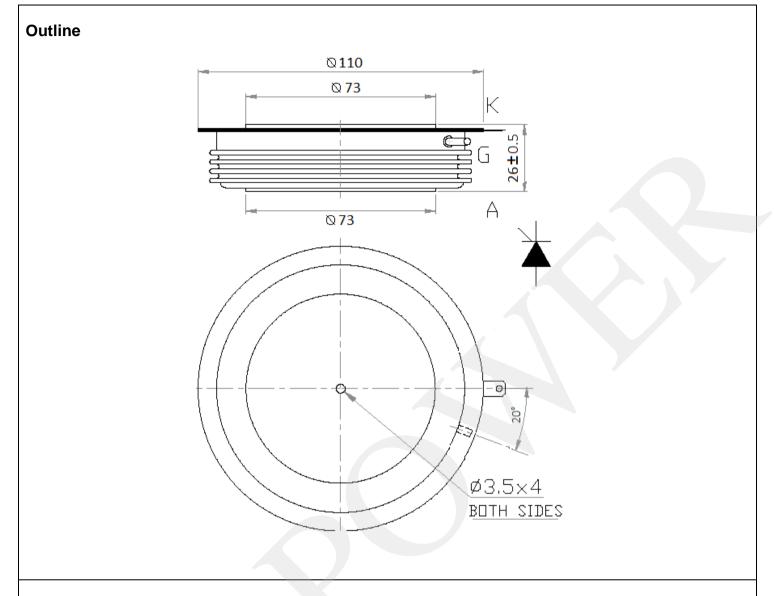
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