**MS T1930** 





### **Key Parameters**

Vdrm / Vrrm	= 2400V
IT(AV)	= 1930A
Ітѕм	= 27kA
V <sub>T(TO)</sub>	= 0.89V
ſт	= 0.21mΩ

#### **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	1930	С	X X
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 T1930C24 : 2400V VDRM, VRRM, 35mm clamp height capsule thyristor			

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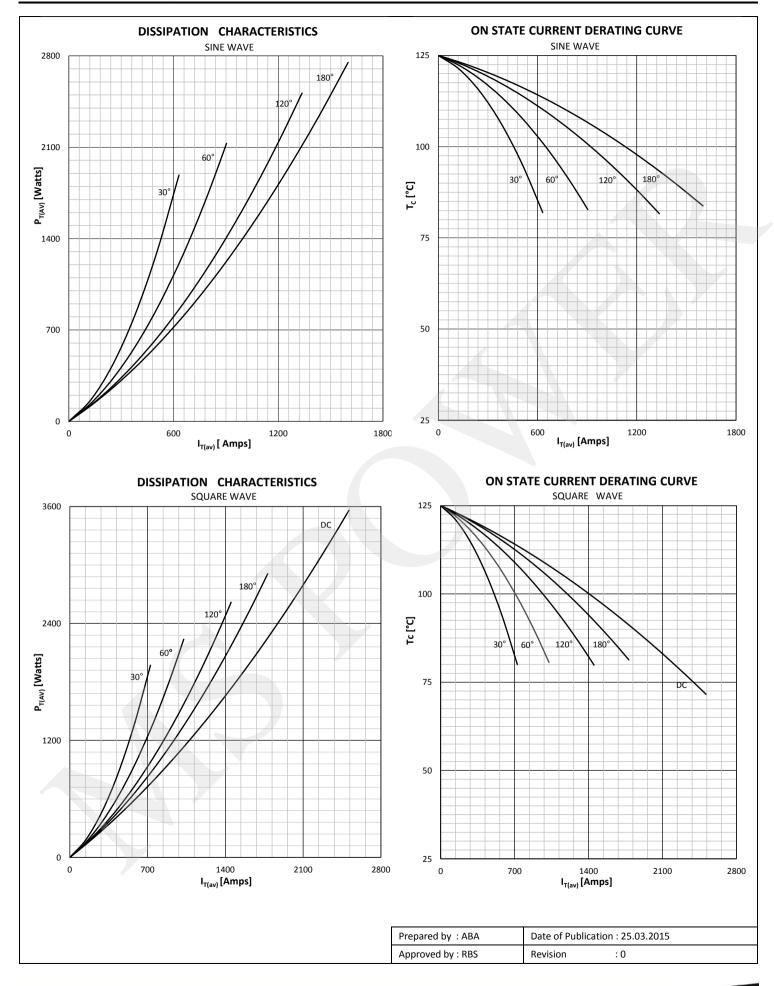


Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	2000 - 2400	V
V RSM	Non-repetitive peak reverse voltage		125	2100 - 2500	V
V drm	Repetitive peak off-state voltage		125	2000 - 2400	V
I RRM	Repetitive peak reverse current	V= V RRM	125	100	mA
I DRM	Repetitive peak off-state current	V= V drm	125	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, $T_c$ =83°C, Double side cooled		1930 1600	А
I RMS	RMS on-state current	Tc=70°C, Double side cooled		2512	А
	• · · · ·	Sine wave, 10 ms	25	27000	А
I TSM	TSM Surge on-state current Without reverse voltage	125	25000	A	
		Sine wave, 10 ms Without reverse voltage	25	3645 x 10 <sup>3</sup>	A²s
l² t	l <sup>2</sup> t		125	3125 x 10 <sup>3</sup>	A²s
νт	On-state voltage	On-state current = 3000A	125	1.60	V
V τ(το)	Threshold voltage		125	0.89	V
rт	On-state slope resistance		125	0.21	mΩ
SWITCH	ING				
di/dt	Critical rate of rise of on-state current		125	150	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\% V_{DRM}$	125	1000	V/µs
GATE					•
	Gate trigger current	V <sub>D</sub> =6V	25	200	mA
V gt	Gate trigger voltage	V <sub>D</sub> =6V	25	3.0	V
I <sub>H</sub>	Holding current	V <sub>D</sub> =6V, gate open circuit	25	800	mA
ΙL	Latching current	V <sub>D</sub> =6V	25	1000	mA
MOUNT	NG				
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		0.017	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, Double side cooled		0.007	°C/W
Тj	Max. junction temperature			125	°C
T stg	Storage temperature			-40 125	°C
М	Clamping Force			35 - 45	kN
W	Weight (Approx.)			1100	gm

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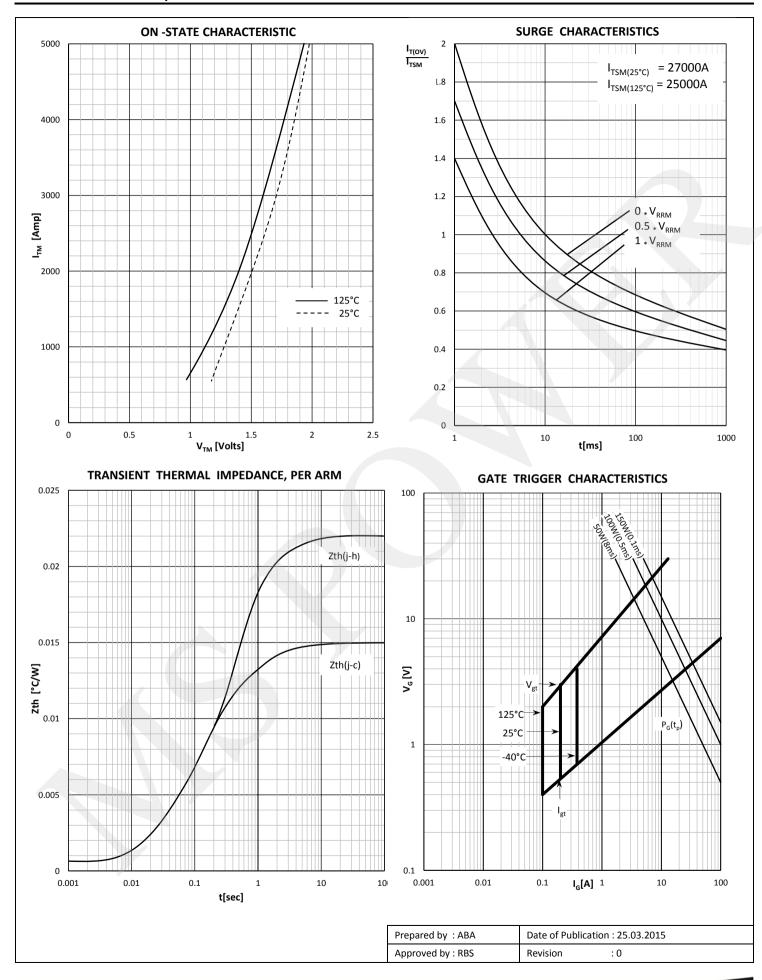
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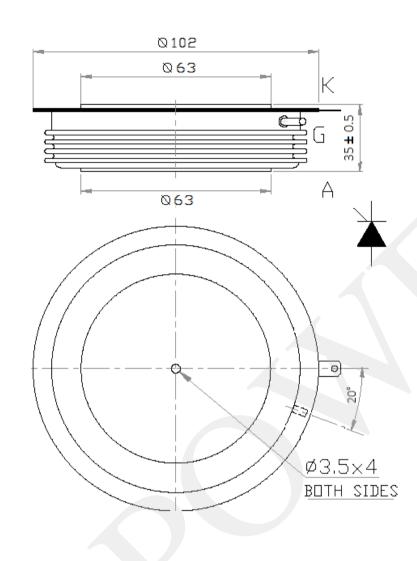




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