MS T722





Key Parameters

VDRM / VRRM = 1800V= 722AI_{T(AV)} = 9.0kA**I**TSM $V_{T(TO)}$ = 0.80V $= 0.50 \text{m}\Omega$ 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	722	С	ХX
Phase Control Thyristor	Current Code	C - Capsule package witt Alloyed silicon technology	Voltage Code Code X 100 = V_{DRM}/V_{RRM}
Order Code MS T722C18: 1800V V _{DRM} , V _{RRM} , 14mm clamp height capsule thyristor			

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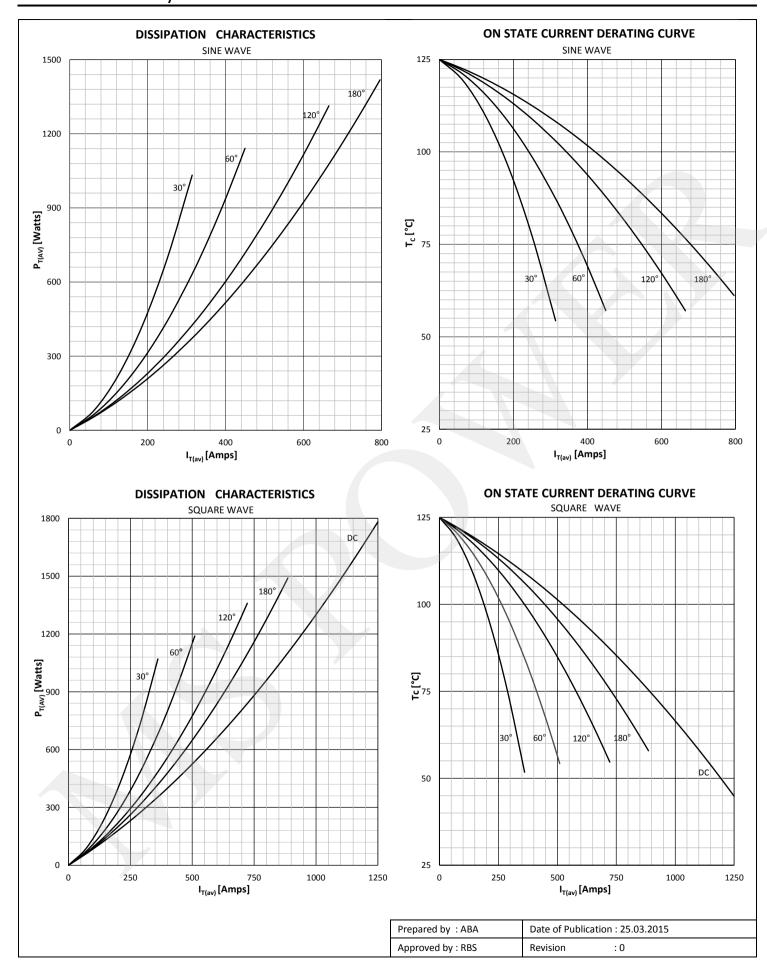


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	200 - 1800	V
V RSM	Non-repetitive peak reverse voltage		125	300 - 1900	V
V DRM	Repetitive peak off-state voltage		125	200 - 1800	V
I RRM	Repetitive peak reverse current	V= V RRM	125	50	mA
I DRM	Repetitive peak off-state current	V= V DRM	125	50	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 =61°C, Double side cooled		722 796	А
I RMS	RMS on-state current	T _c =61°C, Double side cooled		1250	Α
	Surge on-state current	Sine wave, 10 ms	25	9000	A
I TSM		Without reverse voltage	125	8000	Α
		Sine wave, 10 ms	25	405 x 10 ³	A ² s
l² t		Without reverse voltage	125	320 x 10 ³	A²s
Vт	On-state voltage	On-state current = 2400A	125	2.15	V
V T(TO)	Threshold voltage		125	0.80	V
rт	On-state slope resistance		125	0.50	mΩ
SWITCH	ING			I II	
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	200	mA
V _{gt}	Gate trigger voltage	V _D =6V	25	3.0	V
I _H	Holding current	V _D =6V, gate open circuit	25	600	mA
ΙL	Latching current	V _D =6V	25	1000	mA
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, Double side cooled		0.045	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, Double side cooled		0.052	°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			8 - 12	kN
W	Weight (Approx.)			150	gm

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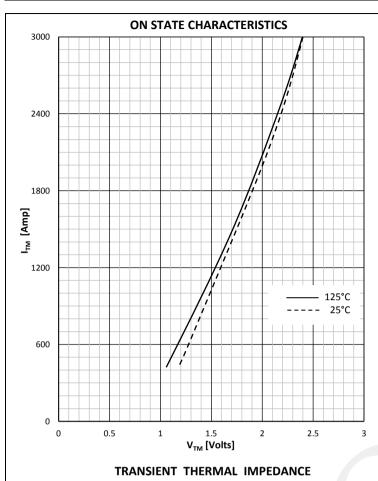
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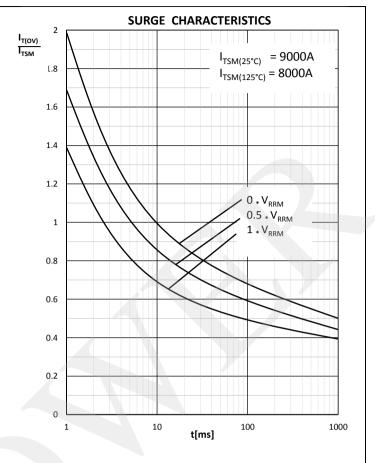


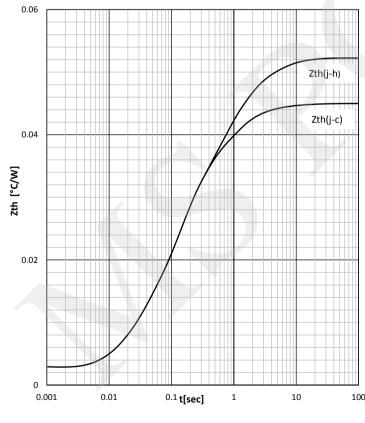


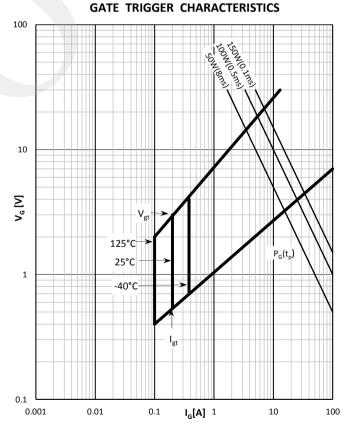
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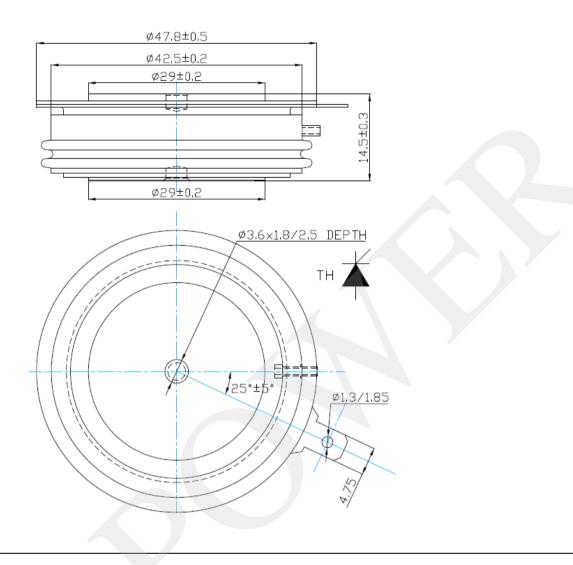


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