MS T250





Key Parameters

V_{DRM} / V_{RRM} = 1600V $I_{T(AV)} = 250A$ $I_{TSM} = 7000A$ $V_{T(TO)} = 0.92V$ $= 0.87 \text{m}\Omega$ rт

Features

- Full blocking capability over wide temperature range
- Pressure contacts technology for high reliability'
- Highest robustness

ApplicationsPower Supplies

- DC motor control
- **Controlled Rectifiers**
- AC switch

Ordering Information

MST	250	S	ХX	U	K
Phase Control Thyristor	Current Code	Stud / Flat Base Version	Voltage Code Code X 100 = V _{DRM} /V _{RRM}	Stud Threads U = 3/4" UNF	Technology K = Pressure Contact Technology
Order Code MS T250S16UK: 1600V VDRM. VRRM. Stud base Thyristor with 3/4" UNF threads					

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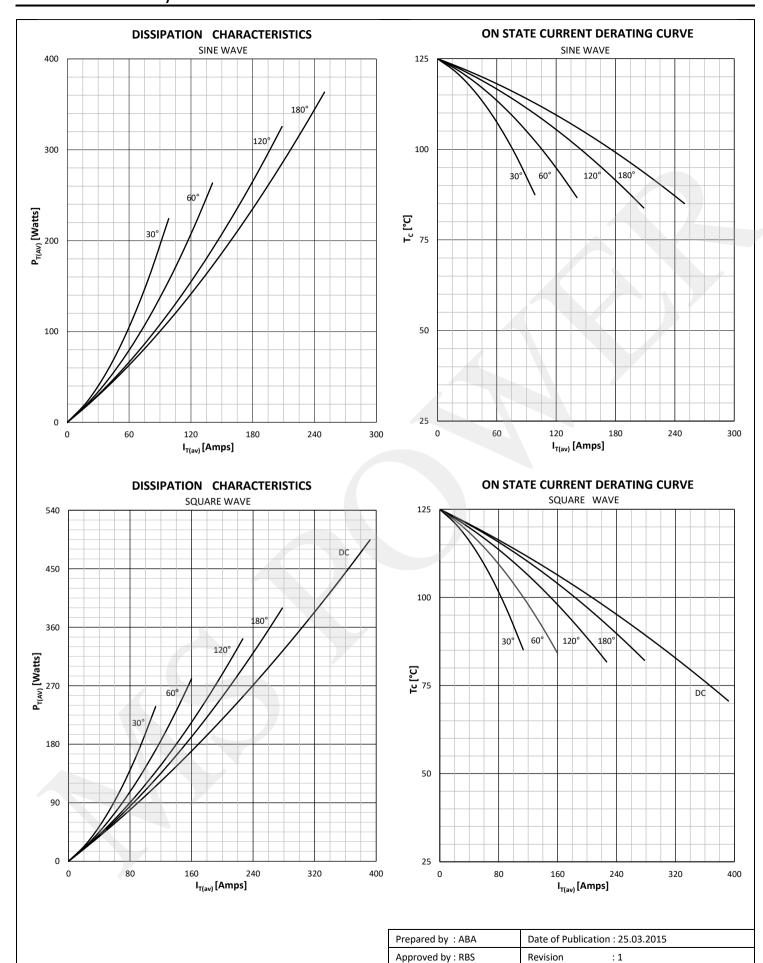


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	200 - 1600	V
V RSM	Non-repetitive peak reverse voltage		125	300 - 1700	V
V DRM	Repetitive peak off-state voltage		125	200 - 1600	V
I RRM	Repetitive peak reverse current	V= V RRM	125	50	mA
I DRM	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 =85°C		250	Α
I RMS	RMS on-state current			392	А
	_	Sine wave, 10 ms	25	7000	А
I TSM	Surge on-state current	Without reverse voltage	125	6000	Α
		Sine wave, 10 ms	25	245000	A ² s
l² t		Without reverse voltage	125	180000	A²s
Vт	On-state voltage	On-state current = 785A	125	1.70	V
V T(TO)	Threshold voltage		125	0.92	V
rт	On-state slope resistance		125	0.87	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 .		
I 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
I _L	Latching current	V _D =6V	25	1000	mA
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case		0.11	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case		0.13	°C/W
R th(c-h)	Thermal impedance	Case to heatsink		0.04	°C/W
Тj	Max. junction temperature			125	°C
T stg	Storage temperature			-40 125	°C
М	Mounting torque			2.5 - 2.77	KgM
W	Weight (Approx.)			320	gm

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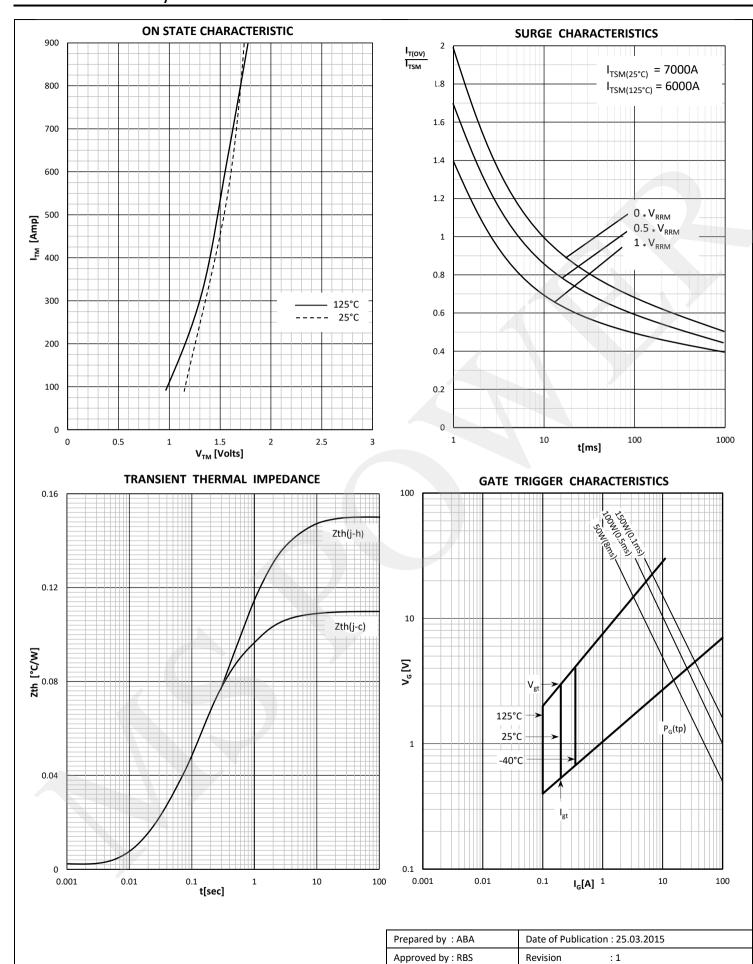
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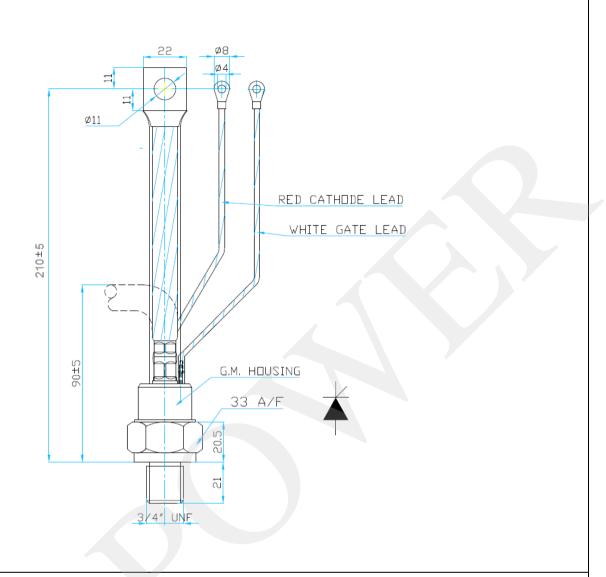




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