MS T400





Key Parameters

 $\begin{array}{lll} V_{DRM} \, / \, V_{RRM} & = 1600 V \\ I_{T(AV)} & = 400 A \\ I_{TSM} & = 9000 A \\ V_{T(TO)} & = 0.85 V \\ r_{T} & = 0.60 m \Omega \end{array}$

Features

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

Applications

- Power Supplies
- DC motor control
- Controlled Rectifiers
- AC switch

Ordering Information

Phase Control Thyristor Code Stud / Flat Base Voltage Code Code X 100 = V _{DRM} /V _{RRM} Stud Threads M = M24x1.5 U = 3/4" 16UNF-2A K = Pressu	

Order Code MS T400S16MK: 1600V VDRM, VRRM, Stud Thyristor with metric threads

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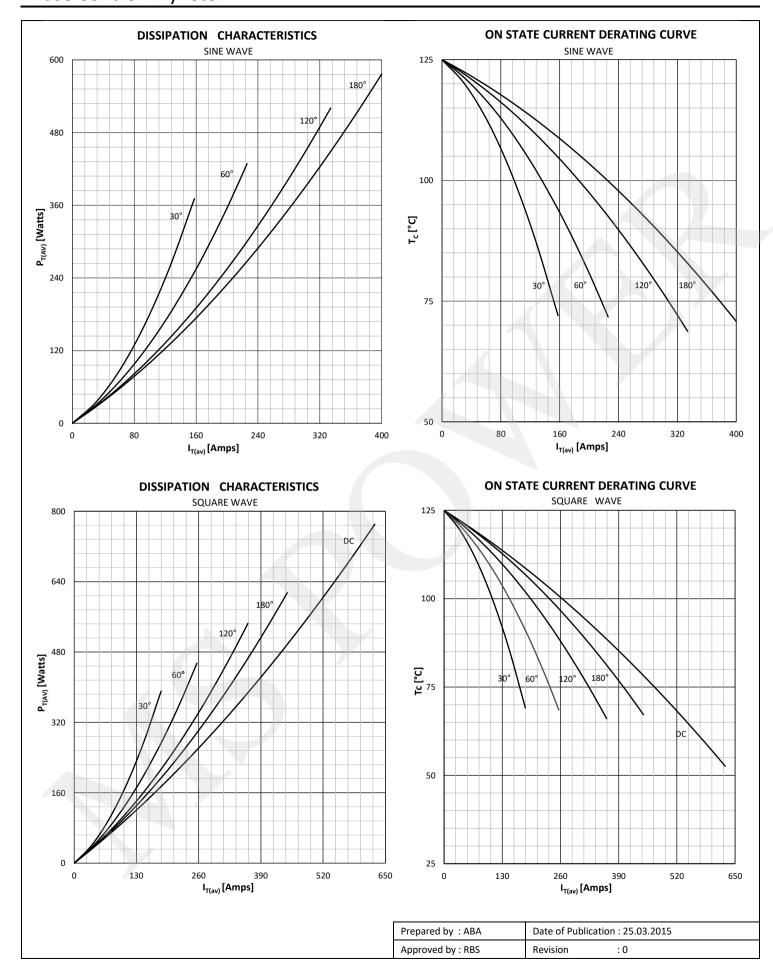


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	200 - 1600	V
V RSM	Non-repetitive peak reverse voltage		125	300 - 1700	V
V DRM	Repetitive peak off-state voltage		125	200 - 1600	V
I RRM	Repetitive peak reverse current	V= V RRM	125	30	mA
I DRM	Repetitive peak off-state current	V= V DRM	125	30	mA
CONDU	CTING				
IT(AV)	Mean on state current	180° sin ,50 Hz, T _c =70°C		400	Α
I RMS	RMS on-state current	T _c =70°C		628	Α
		Sine wave, 10 ms	25	9000	А
I TSM	Surge on-state current	Without reverse voltage	125	8000	Α
		Sino wayo 10 ms	25	405000	A ² s
l² t	l² t	Sine wave, 10 ms Without reverse voltage	125	320000	A²s
Vт	On-state voltage	On-state current = 1250A	125	1.70	V
V T(TO)	Threshold voltage		125	0.85	V
rт	On-state slope resistance		125	0.60	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			1		
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		0.09	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case		0.10	°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 - 2.7	kgM
W	Weight (Approx.)			520	gm

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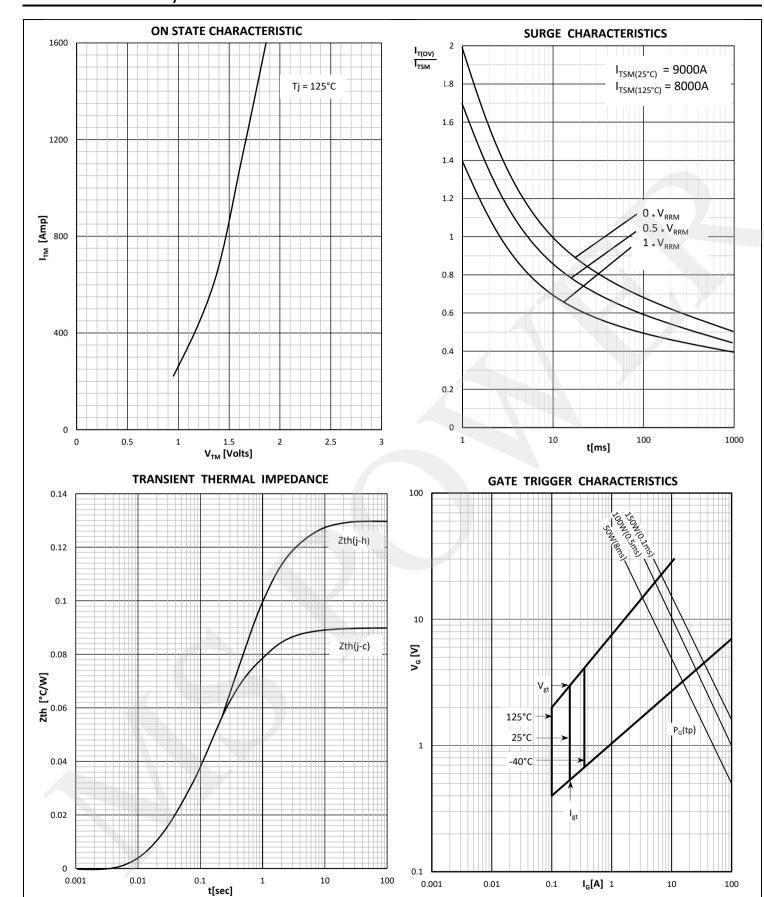
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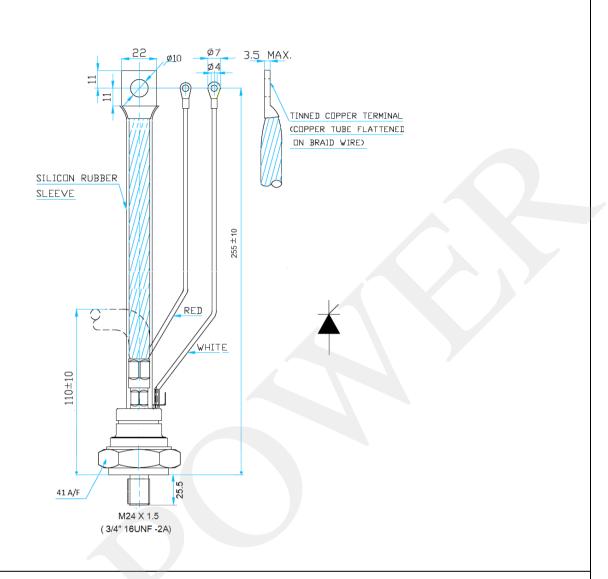
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Revision

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