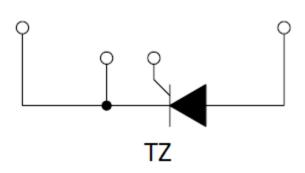
MS TZ430





Key Parameters

VDRM / VRRM = 2400 V $I_{T(AV)}$ = 430A= 14000AITSM $V_{T(TO)}$ = 0.95 V $= 0.45 \text{m}\Omega$ rт

Features

- Full blocking capability over wide temperature rangeHeat transfer through aluminium oxide ceramic isolated metal baseplate
- Pressure contacts technology for high reliability

Ordering Information

MS	TZ	430	K	ХX
Fixed code	TZ - Thyristor Module	Current Code	Technology K = Pressure Contact Technology	Voltage Code Code X 100 = V _{DRM} /V _{RRM}
Order Code MS TZ430K24 : 2400V VDRM, VRRM, Thyristor Module				

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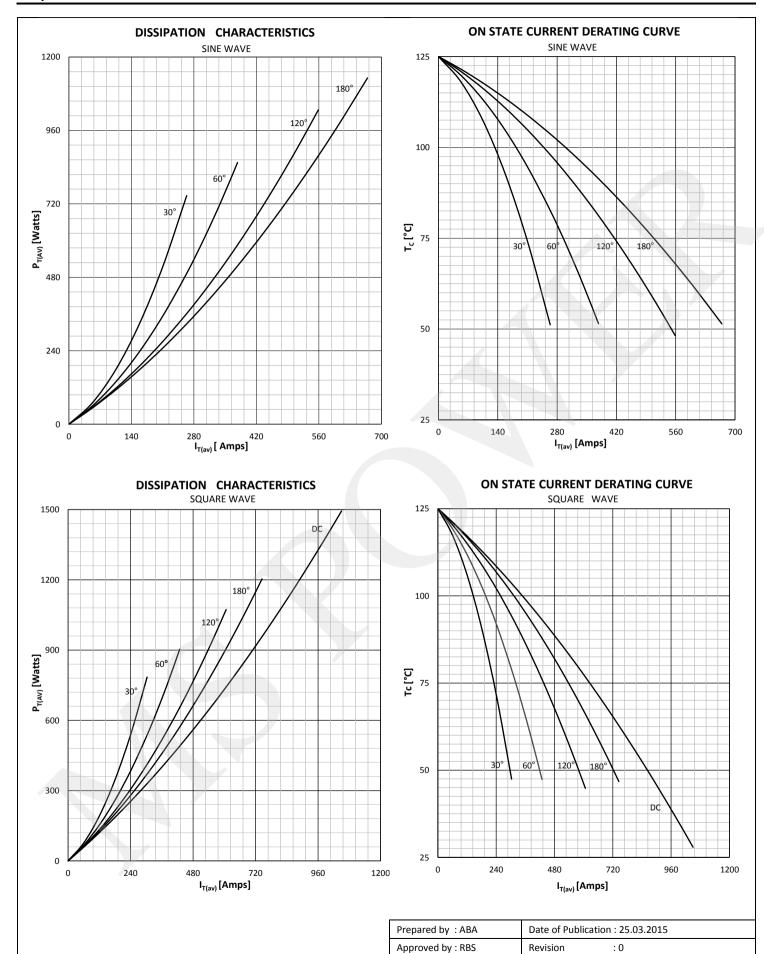


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	1800 - 2400	V
V RSM	Non-repetitive peak reverse voltage		125	1900 - 2500	V
V DRM	Repetitive peak off-state voltage		125	1800 - 2400	V
I RRM	Repetitive peak reverse current	V= V RRM	125	100	mA
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 =85°C		430 669	Α
I RMS	RMS on-state current	180° sin ,50 Hz, T _c =51°C		1050	A
		Sine wave, 10 ms Without reverse voltage	25	14000	Α
I TSM	Surge on-state current		125	12000	A
		Sine wave, 10 ms Without reverse voltage	25	980 x 10 ³	A ² s
l² t	I ² t		125	720 x 10 ³	A ² s
	On state well-and	On alata assessed 4500A			
Vт	On-state voltage	On-state current = 1500A	125	1.78	V
V T(TO)	Threshold voltage		125	0.95	V
rт	On-state slope resistance		125	0.45	mΩ
SWITCH	IING				
di/dt	Critical rate of rise of on-state current	i _{GM} =1A, d _{iG} /dt=1A/µs, f=50Hz	125	150	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\%V_{DRM}$	125	1000	V/µs
GATE					
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	300	mA
I L	Latching current	V _D =6V	25	1000	mA
MOUNT	ING		-		
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per module		0.065	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, per module		0.074	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per module		0.02	°C/W
Тj	Max. junction temperature			125	°C
T stg	Storage temperature			-40 130	°C
V _{ISOL}	Insulation test voltage,RMS	F=50Hz, 1min		3.0	KV
M1	Mounting torque			7 ± 15%	Nm
	Terminal connection torque			12 ± 15%	Nm
M2	Tommian commoducit torque		<u> </u>		

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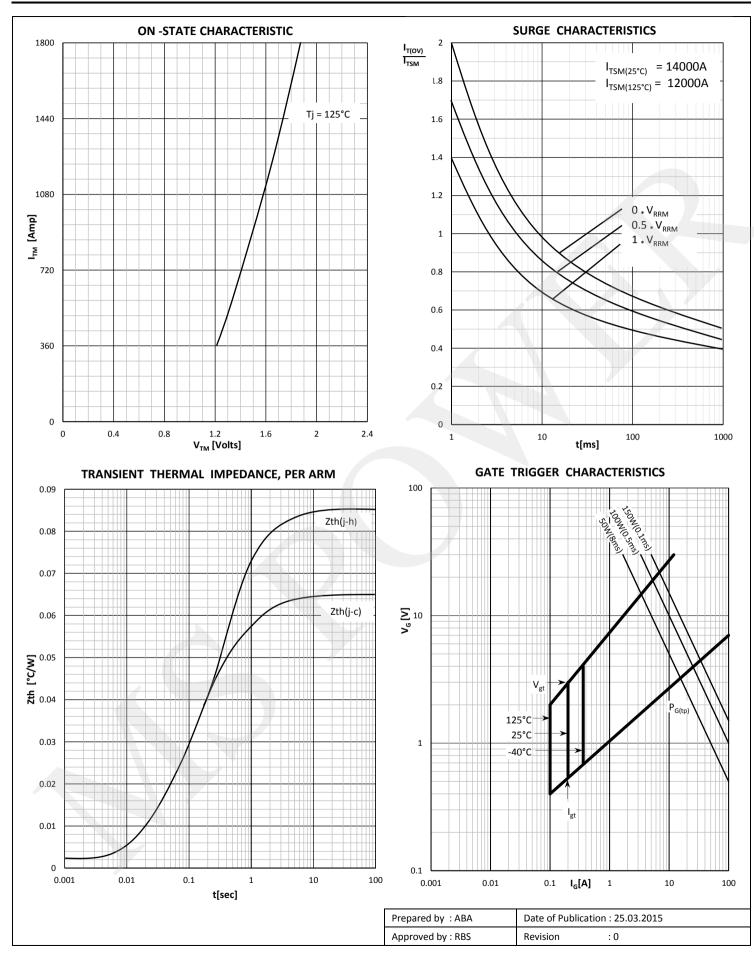
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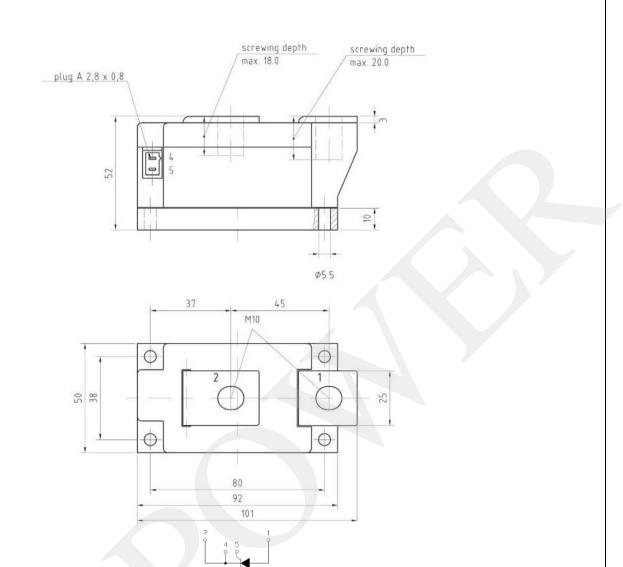




MS TZ430



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