MS TZ430





Key Parameters

= 2400V
= 430A
= 14000A
= 0.95V
= 0.45mΩ

Features

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

- ApplicationsPower SuppliesDC motor control
- **Controlled Rectifiers** •

Ordering Information

MS	TZ	430	К	ХХ
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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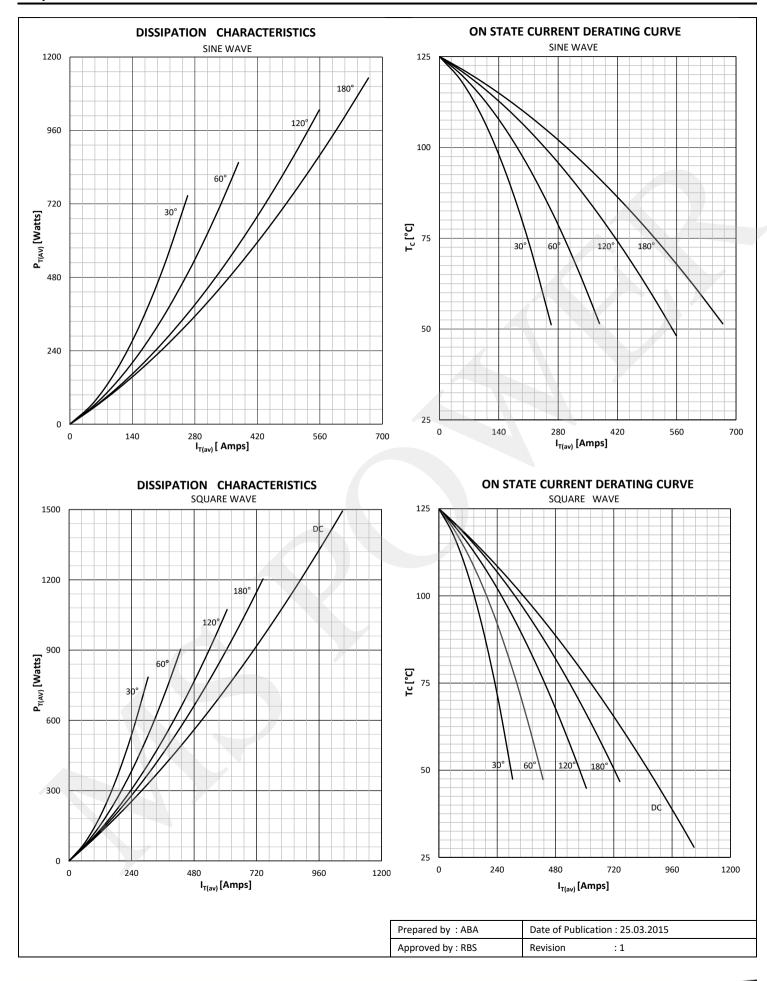


Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	1800 - 2400	V
V RSM	Non-repetitive peak reverse voltage		125	1900 - 2500	V
V drm	Repetitive peak off-state voltage		125	1800 - 2400	V
I RRM	Repetitive peak reverse current	V= V RRM	125	100	mA
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	А
I RMS	RMS on-state current	180° sin ,50 Hz, T _c =51°C		1050	A
	Surge on-state current	Sine wave, 10 ms	25	14000	А
I TSM		Without reverse voltage	125	12000	А
			25	980 x 10 ³	A ² s
l² t	l² t	Sine wave, 10 ms Without reverse voltage	125	720 x 10 ³	A ² s
Vт	On state veltage	On-state current = 1500A	125	1.78	V
	On-state voltage				-
V т(то)	Threshold voltage		125	0.95	V
rт	On-state slope resistance		125	0.45	mΩ
SWITCH	ING			1	
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	1			1	
l _{gt}	Gate trigger current	V _D =6V	25	200	mA
V _{gt}	Gate trigger voltage	V _D =6V	25	3.0	V
Ι _Η	Holding current	V _D =6V, gate open circuit	25	300	mA
ΙL	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
VISOL	Insulation test voltage,RMS	F=50Hz, 1min		3.0	KV
M1	Mounting torque			7 ± 15%	Nm
M2	Terminal connection torque			12 ± 15%	Nm
W	Weight (Approx.)			850	gm

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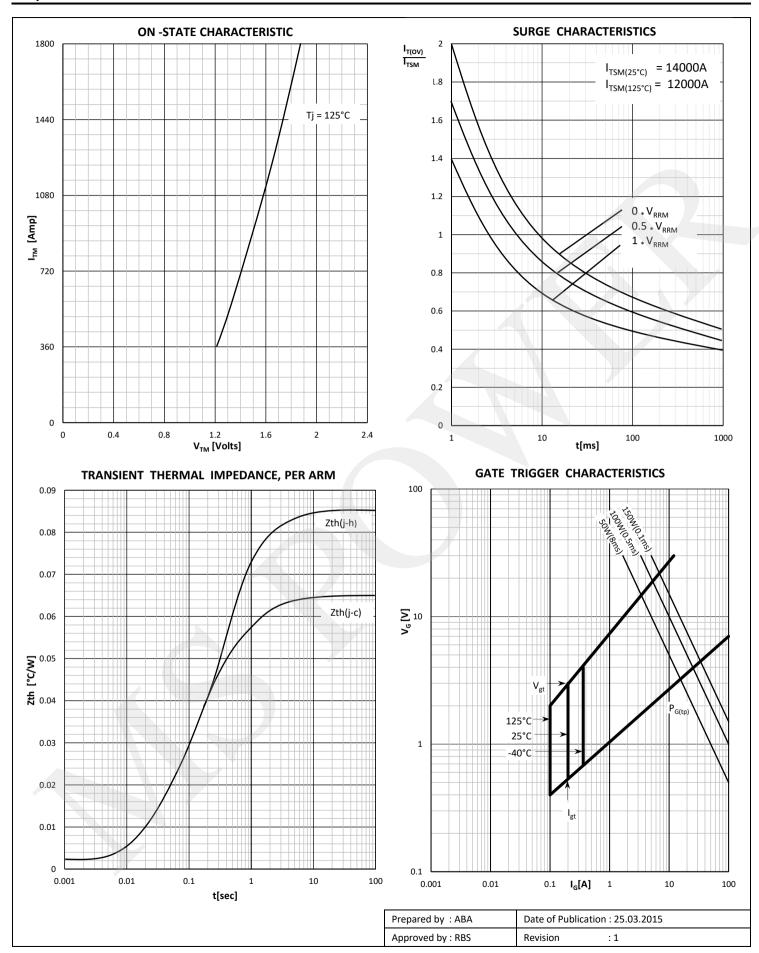
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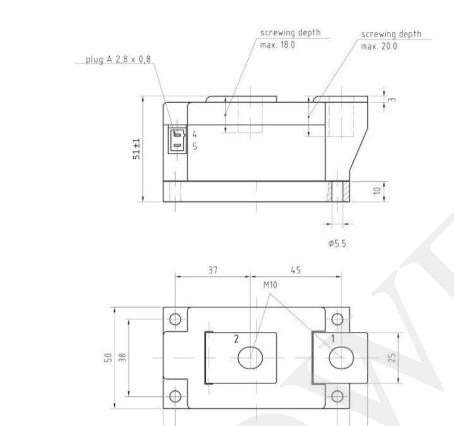




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