MS TT430





Key Parameters

VDRM / VRRM = 2400 V= 430A $I_{T(AV)}$ = 430A = 17000A ITSM $V_{T(TO)}$ = 0.95 V $= 0.45 \text{m}\Omega$ rт

Features

- Full blocking capability over wide temperature range
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Pressure contacts technology for high reliability
- UL Recognized, file no. E505556

ApplicationsPower Supplies

- DC motor control
- Controlled Rectifiers
- AC switch

Ordering Information

MS	TT	430	K	24
Fixed code	TT- Thyristor- Thyristor Module	Current Code	Technology K = Pressure Contact Technology	Voltage Code Code X 100 = V _{DRM} /V _{RRM}
Order Code MS TT430K24 : 2400V VDRM, VRRM, Thyristor-Thyristor Module				

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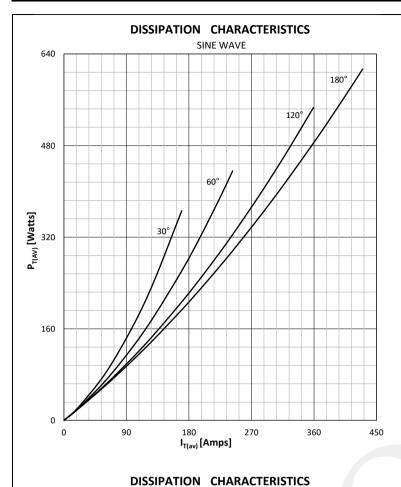
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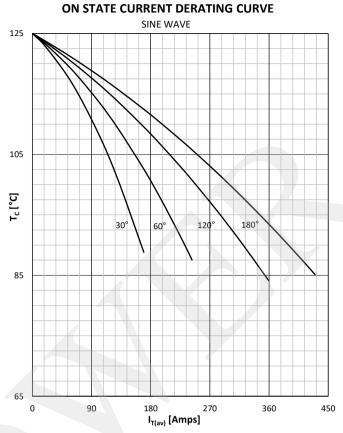


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKIN	G				
V RRM	Repetitive peak reverse voltage		125	2000 - 2400	V
V RSM	Non-repetitive peak reverse voltage		125	2100 - 2500	V
V DRM	Repetitive peak off-state voltage		125	2000 - 2400	V
I RRM	Repetitive peak reverse current	V= V RRM	125	100	mA
I DRM	Repetitive peak off-state current	V= V DRM	125	100	mA
CONDUC	TING				
I T (AV)	Mean on state current	180° sin ,50 Hz, T _c =85°C		430	Α
I RMS	RMS on-state current			675	А
	_	Sine wave, 10 ms	25	17000	А
I TSM	Surge on-state current	Without reverse voltage	125	15000	Α
		Sine wave, 10 ms	25	1445 x 10 ³	A²s
l² t	l² t	Without reverse voltage	125	1125 x 10 ³	A²s
V т	On-state voltage	On-state current = 1500A	125	1.78	V
	Threshold voltage		125	0.95	V
	On-state slope resistance		125	0.45	mΩ
	·		125	0.40	11152
SWITCHIN		N 2-21/			
di/dt	Critical rate of rise of on-state current	$V_D = 67\%V_{DRM}$, $I_{GM} = 1A$, $di_G/dt = 1A/\mu s$, $f = 50Hz$	125	150	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\%V_{DRM}$	125	1000	V/µs
GATE					
_	Gate trigger current	V _D =6V	25	200	mA
	Gate trigger voltage	V _D =6V	25	3.0	V
	Holding current	V _D =6V, gate open circuit	25	300	mA
I _L	Latching current	V _D =6V	25	1500	mA
MOUNTIN	IG		<u> </u>		
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per module		0.0650 0.0325	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, per arm		0.0747	°C/W
		per module Case to heatsink, per arm		0.0373	
R th(c-h)	Thermal impedance	per module		0.01	°C/W
T j	Max. junction temperature			125	°C
T stg	Storage temperature			-40 150	°C
V _{ISOL}	Insulation test voltage,RMS	F=50Hz, 1min		3.0	KV
M1	Mounting torque			6 ± 15%	Nm
	Terminal connection torque			12 ± 15%	Nm
W	Weight (Approx.)			1450	gm
A1 ®	File No.			E505556	
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900 750 750 180° 120° 180° 300 300

 $I_{T(av)}[Amps]$

560

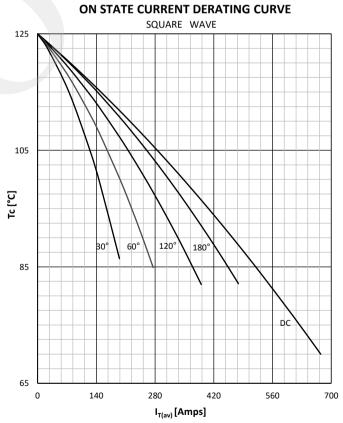
700

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140

SQUARE WAVE



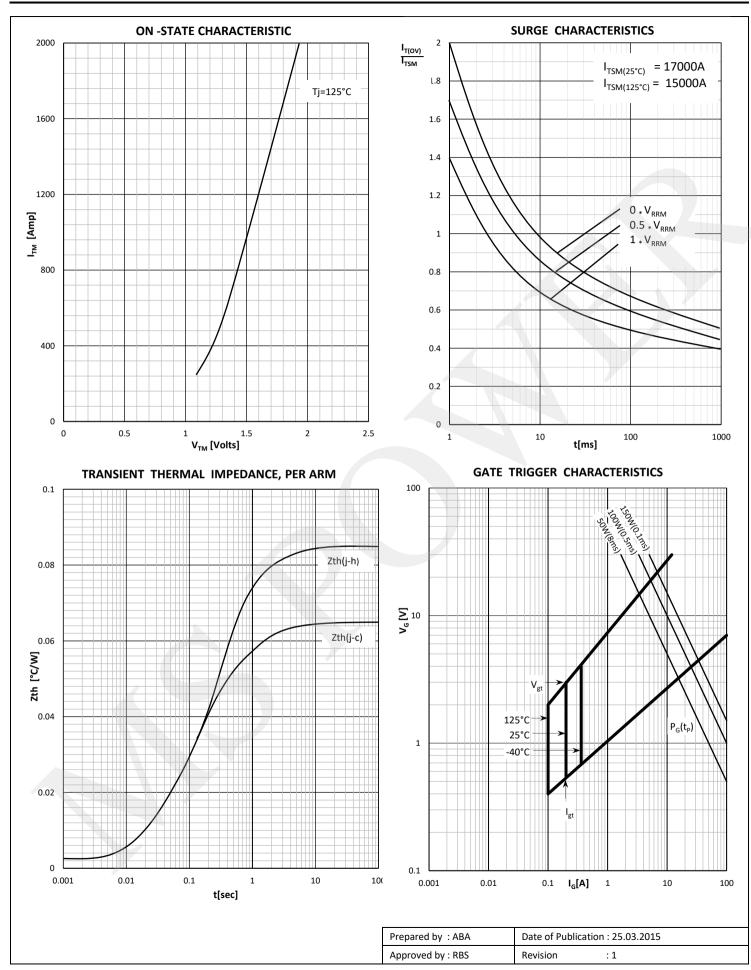
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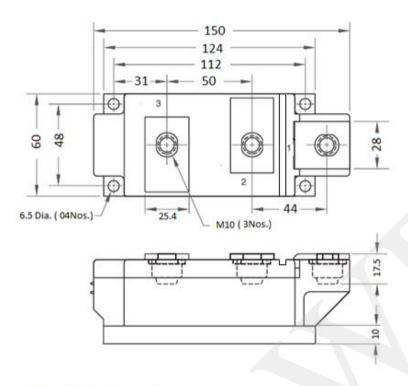


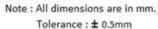


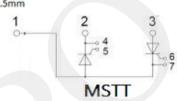
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