MS TT215





Key Parameters

 $\begin{array}{lll} V_{DRM} \, / \, V_{RRM} &= 2200 V \\ I_{T(AV)} &= 215 A \\ I_{TSM} &= 10000 A \\ V_{T(TO)} &= 0.95 V \\ r_{T} &= 0.92 m \Omega \end{array}$

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

Applications

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

Ordering Information

MS	TT	215	К	22		
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 TT215K22 : 2200V VDRM, VRRM, Thyristor-Thyristor Module						

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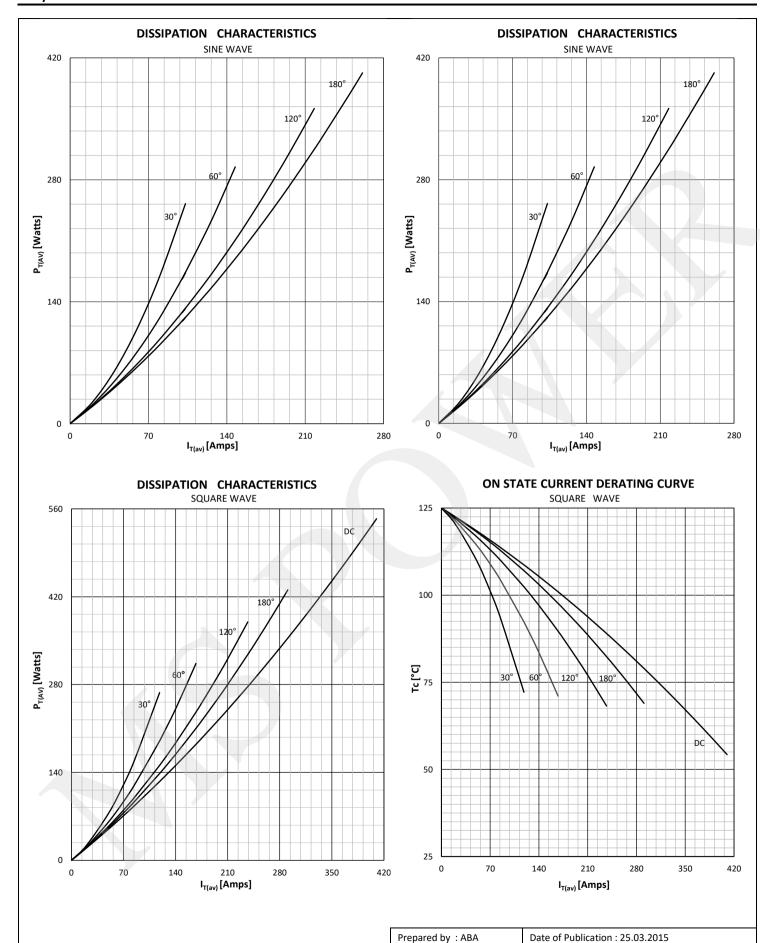
MS TT215



Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	2000 - 2200	V
V RSM	Non-repetitive peak reverse voltage		125	2100 - 2300	V
V DRM	Repetitive peak off-state voltage		125	2000 - 2200	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		215	Α
I RMS	RMS on-state current			410	Α
	Surge on-state current	Sine wave, 10 ms Without reverse voltage	25	10000	Α
I TSM			125	9000	Α
	l² t	0	25	500000	A ² s
l² t		Sine wave, 10 ms Without reverse voltage	125	405000	A²s
Vт	On-state voltage	On-state current = 800A	125	1.75	V
V T(TO)	Threshold voltage	OT GLAIG GOT OT THE STATE OF TH	125	0.95	
r T	On-state slope resistance		125	0.92	mΩ
			123	0.32	11122
SWITCH					
di/dt	Critical rate of rise of on-state current	f=50Hz, I _{GM} =1A, di _G /dt=1A/μs	125	100	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	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, per arm per module		0.130 0.065	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, per arm per module		0.150 0.075	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per arm per module		0.04 0.02	°C/W
Тj	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			5 ± 15%	Nm
M2	Terminal connection torque			12 ± 15%	Nm
W	Weight (Approx.)			650	gm
A1 ®	File No.			E505556	
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MS TT215





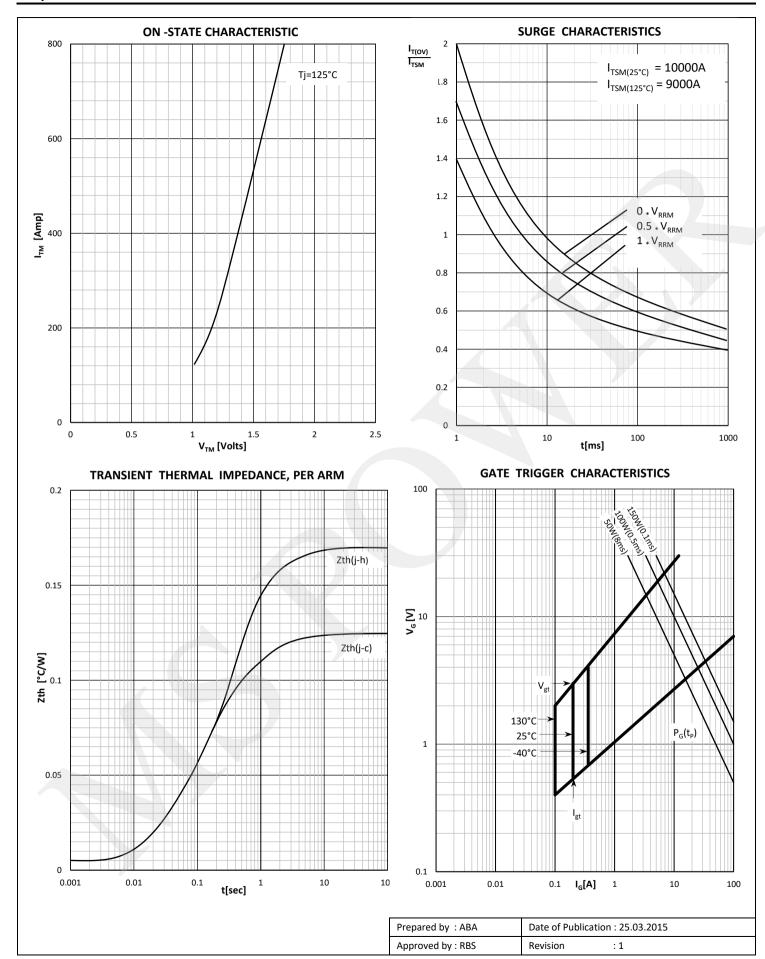
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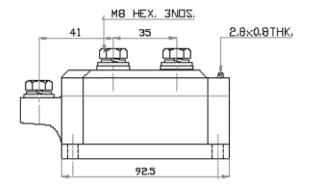
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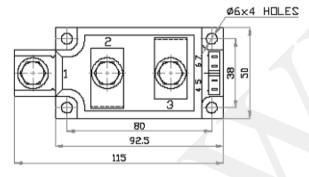


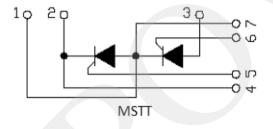




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