MS TT169





Key Parameters

VDRM / VRRM = 3600 V= 169A $I_{T(AV)}$ = 169A = 4600A **I**TSM $V_{T(TO)}$ = 1.2V $= 2.3 \text{m}\Omega$ 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	тт	169	K	36
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 TT169K36: 3600V VDRM, VRRM, Thyristor-Thyristor Module				

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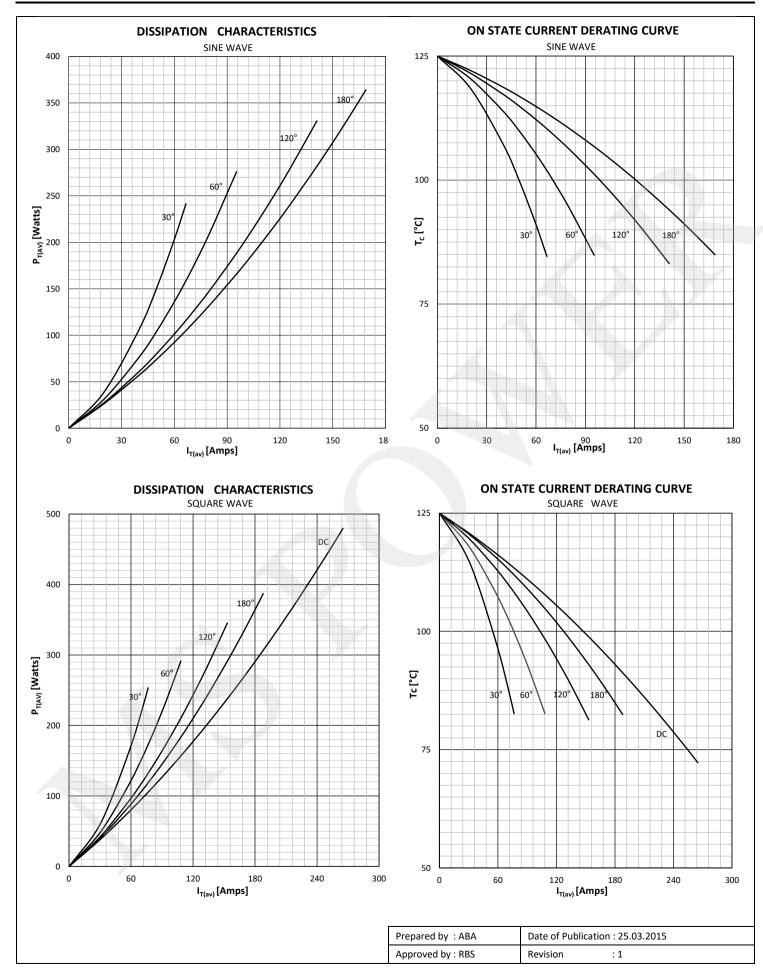
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Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	3000 - 3600	V
V RSM	Non-repetitive peak reverse voltage		125	3100 - 3700	V
V DRM	Repetitive peak off-state voltage		125	3600	V
I RRM	Repetitive 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		169	Α
I RMS	RMS on-state current			265	А
		Sine wave, 10 ms	25	4600	А
I тѕм	Surge on-state current	Without reverse voltage	125	4000	Α
		Sine wave, 10 ms	25	106000	A²s
I² t	l ² t	Without reverse voltage	125	80000	A²s
V т	On-state voltage	On-state current = 600A	25	2.60	V
V T(TO)	Threshold voltage		125	1.2	V
r T	On-state slope resistance		125	2.3	mΩ
	·		1.20	2.0	
SWITCH			405	000	A /
di/dt	Critical rate of rise of on-state current	nonrepetitive	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	500	mA
Ιι	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		0.11 0.055	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, per arm per module		0.13 0.065	°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
FL ®	File No.			E505556	
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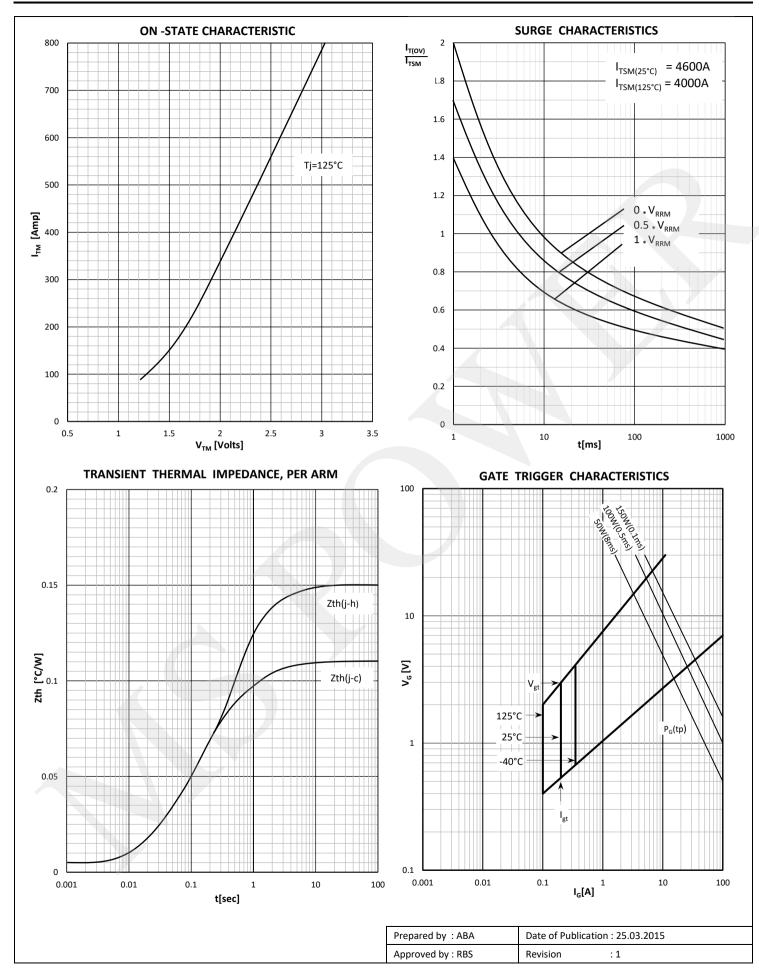
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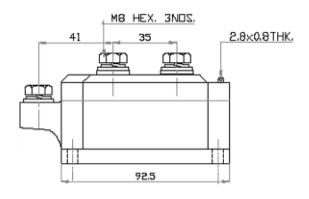


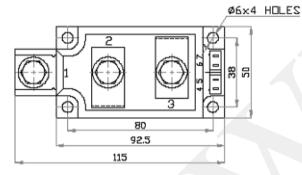


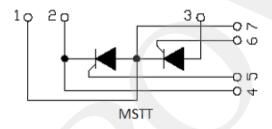
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