

Key Parameters

 $V_{DRM} / V_{RRM} = 1800V$ $I_{T(AV)} = 106A$ $I_{TSM} = 2250A$ $V_{T(TO)} = 0.9V$ $r_{T} = 2.0m\Omega$

Features

- Full blocking capability over wide temperature range
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability

Applications

- Power Supplies
- DC motor control
- Controlled Rectifiers
- Temperature control

Ordering Information

MS	TT	106	S	ХX	ХX
Fixed code	TT- Thyristor- Thyristor Module TD- Thyristor- Diode Module	Current Code	Technology S = Solder Bond Technology	Voltage Code Code X 100 = V _{DRM} /V _{RRM}	None - Standard connection KK - Common Cathode
Order Code, MS TT106S18 : 1800V Vega Vega, Thyrister Thyrister Medule					

Order Code MS TT106S18 : 1800V V_{DRM},V_{RRM}, Thyristor-Thyristor Module

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Technical Information Thyristor / Diode Modules

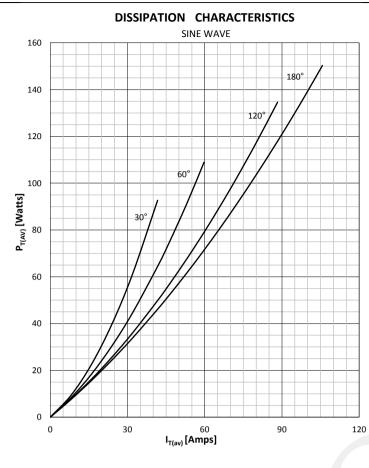
MS TT/TD106

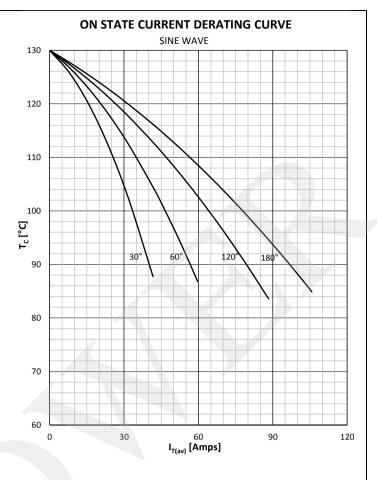


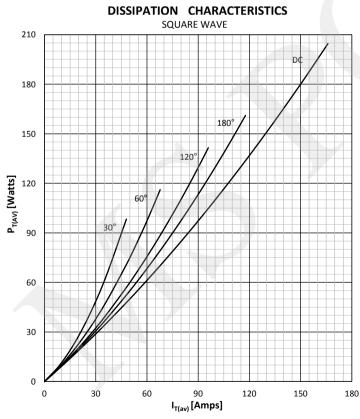
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		130	200 - 1800	V
V RSM	Non-repetitive peak reverse voltage		130	300 - 1900	V
V DRM	Repetitive peak off-state voltage		130	200 - 1800	V
I RRM	Repetitive peak reverse current	V= V RRM	130	20	mA
I DRM	Repetitive peak off-state current	V= V DRM	130	20	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, T _c =85°C		106	Α
I RMS	RMS on-state current			166	А
		Sine wave, 10 ms	25	2250	Α
I TSM	Surge on-state current	Without reverse voltage	130	1900	A
			25	25300	A ² s
l² t	l² t	Sine wave, 10 ms Without reverse voltage	130	18050	A²s
Vт	On-state voltage	On-state current = 300A	25	1.65	V
	-	On-state current = 300A	130	0.9	V
V T(TO)	Threshold voltage				
rт	On-state slope resistance		130	2.0	mΩ
SWITCH					
di/dt	Critical rate of rise of on-state current		130	150	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\%V_{DRM}$	130	1000	V/µs
GATE					
I gt	Gate trigger current	V _D =6V	25	150	mA
V_{gt}	Gate trigger voltage	V _D =6V	25	3.0	V
I _H	Holding current	V _D =6V, gate open circuit	25	250	mA
I _L	Latching current	V _D =6V	25	600	mA
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per module		0.30 0.15	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, per arm per module		0.34 0.17	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per arm per module		0.2 0.1	°C/W
Тj	Max. junction temperature			130	°C
T stg	Storage temperature			-40 125	°C
V _{ISOL}	Insulation test voltage,RMS	F=50Hz, 1min		2.5	KV
M1	Mounting torque			5 ± 15%	Nm
M2	Terminal connection torque			3 ± 15%	Nm
W	Weight (Approx.)			105	gm

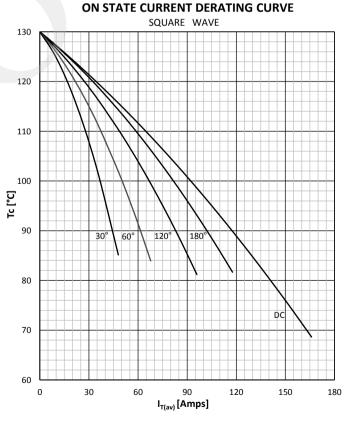
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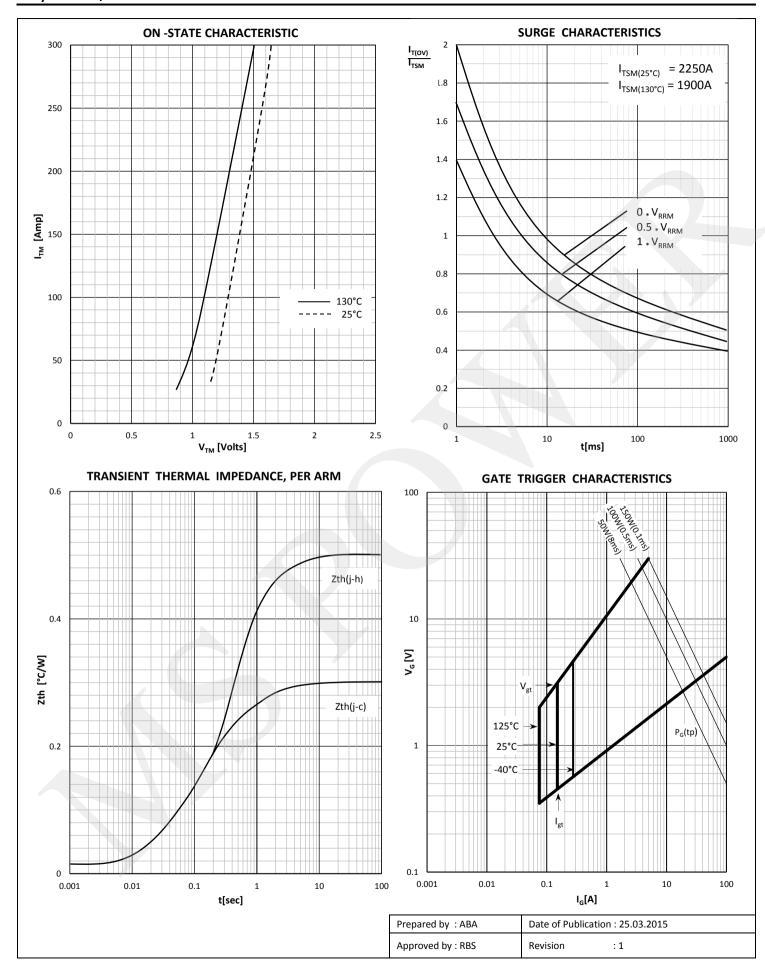
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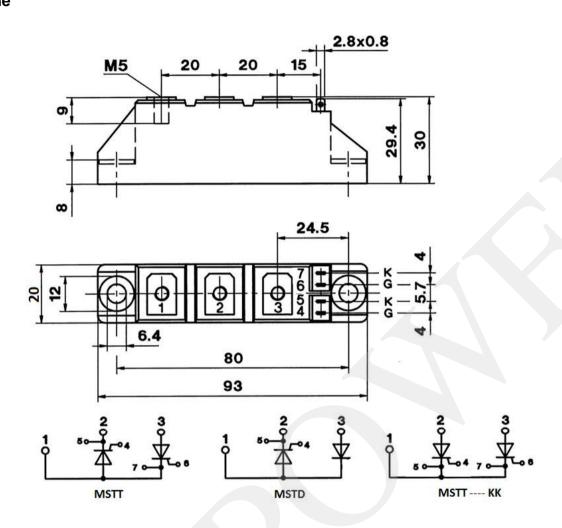
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Technical Information Thyristor / Diode Modules

MS TT/TD106



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