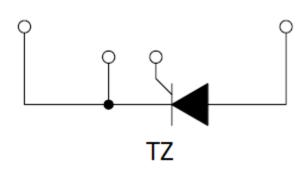
MS TZ800





Key Parameters

V_{DRM} / V_{RRM} = 1800V= 800A $I_{T(AV)}$ = 37000A ITSM $V_{T(TO)}$ = 0.83V $= 0.25 m\Omega$ rт

Features

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

Ordering Information

MS	TZ	800	K	ХX
Fixed code	TZ - Thyristor Module	Current Code	Technology K = Pressure Contact Technology	Voltage Code Code X 100 = V _{DRM} /V _{RRM}
Order Code, MS T7900K19: 1900V V V Thyrister, Medule				

Order Code MS TZ800K18: 1800V VDRM, VRRM, Thyristor Module

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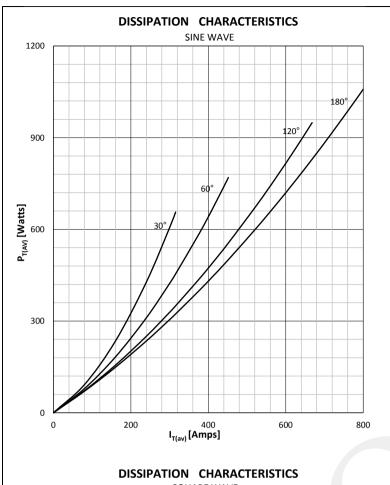


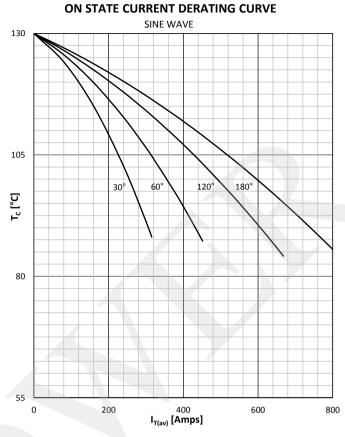
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		130	400 - 1800	V
V RSM	Non-repetitive peak reverse voltage		130	500 - 1900	V
V DRM	Repetitive peak off-state voltage		130	400 - 1800	V
I RRM	Repetitive peak reverse current	V= V RRM	130	150	mA
I DRM	Repetitive peak off-state current	V= V DRM	130	150	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, T _c =85°C		800	Α
I RMS	RMS on-state current			1256	А
		Sino ways 10 mg	25	37000	Α
I TSM	Surge on-state current	Sine wave, 10 ms Without reverse voltage	130	32000	A
			25	6845 x 10 ³	A ² s
l² t	I² t	Sine wave, 10 ms Without reverse voltage	130	5120 x 10 ³	A ² s
.,,	2				
Vт	On-state voltage	On-state current = 3000A	25	1.55	V
V T(TO)	Threshold voltage		130	0.83	V
rт	On-state slope resistance		130	0.25	mΩ
SWITCH	ING				
di/dt	Critical rate of rise of on-state current	i_{GM} =1A, d_{iG}/dt =1A/ μ s, f=50Hz	125	200	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	500	mA
I _L	Latching current	V _D =6V	25	2000	mA
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per module		0.042	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, per module		0.043	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per module		0.01	°C/W
Тj	Max. junction temperature			130	°C
T stg	Storage temperature			-40 125	°C
V _{ISOL}	Insulation test voltage,RMS	F=50Hz, 1min		3.0	KV
M1	Mounting torque			6 ± 15%	Nm
MO	Terminal connection torque			18 ± 15%	Nm
M2					

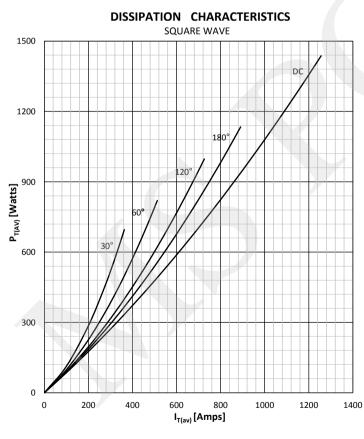
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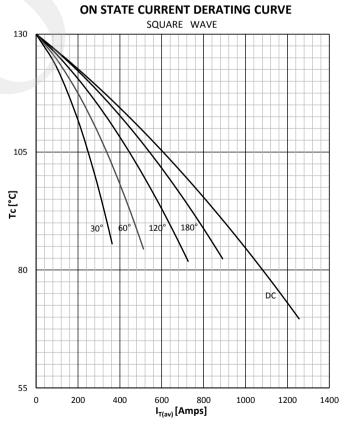
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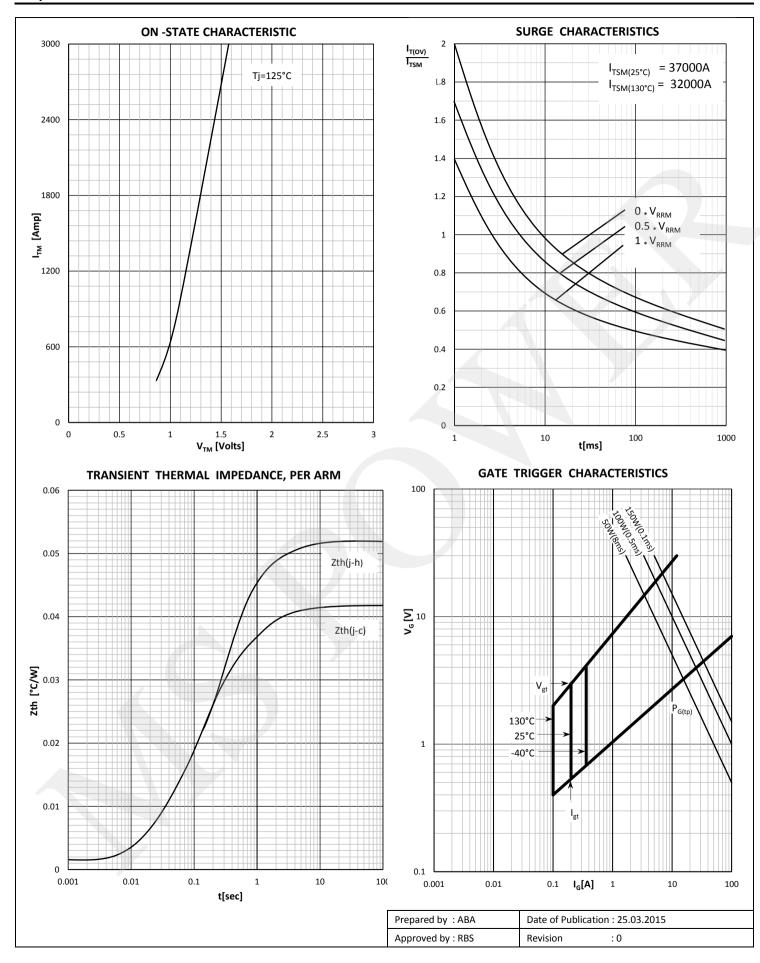




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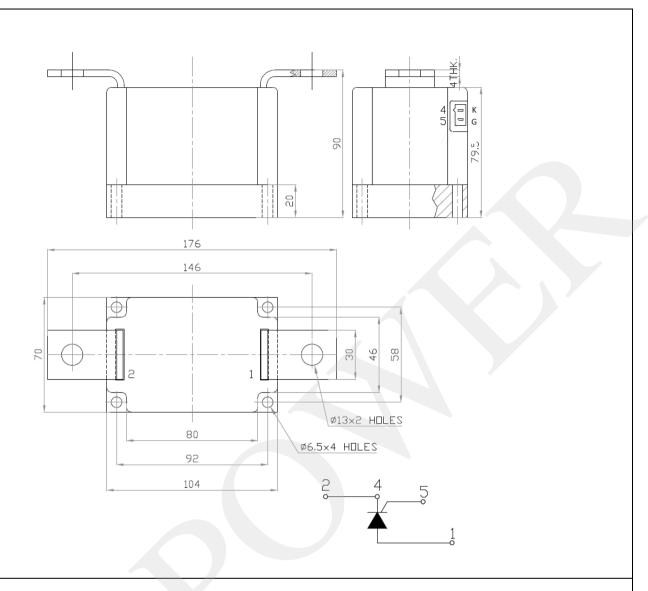
Technical Information

Thyristor Modules

MS TZ800



Outline



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MS TZ800



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- -to perform joint Risk and Quality Assessments;
- -the conclusion of Quality Agreements;
- -to establish joint measures of an ongoing product survey, and that we may make delivery depended on the realization of any such measures.

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