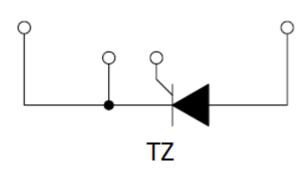
MS TZ560





Key Parameters

 V_{DRM} / V_{RRM} = 1800V $I_{T(AV)}$ = 560A = 17000A = 560A I_{TSM} $V_{T(TO)}$ = 0.80V $= 0.38 m\Omega$ rτ

Features

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

Ordering Information

MS	TZ	560	K	XX
Fixed code	TZ - Thyristor Module	Current Code	Technology K = Pressure Contact Technology	$\begin{array}{c} \text{Voltage Code} \\ \text{Code X 100} = \text{V}_{\text{DRM}} \! / \text{V}_{\text{RRM}} \end{array}$
Order Code MS TZ560K18 : 1800V V _{DRM} , V _{RRM} , Thyristor Module				

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Technical Information Thyristor Modules

MS TZ560

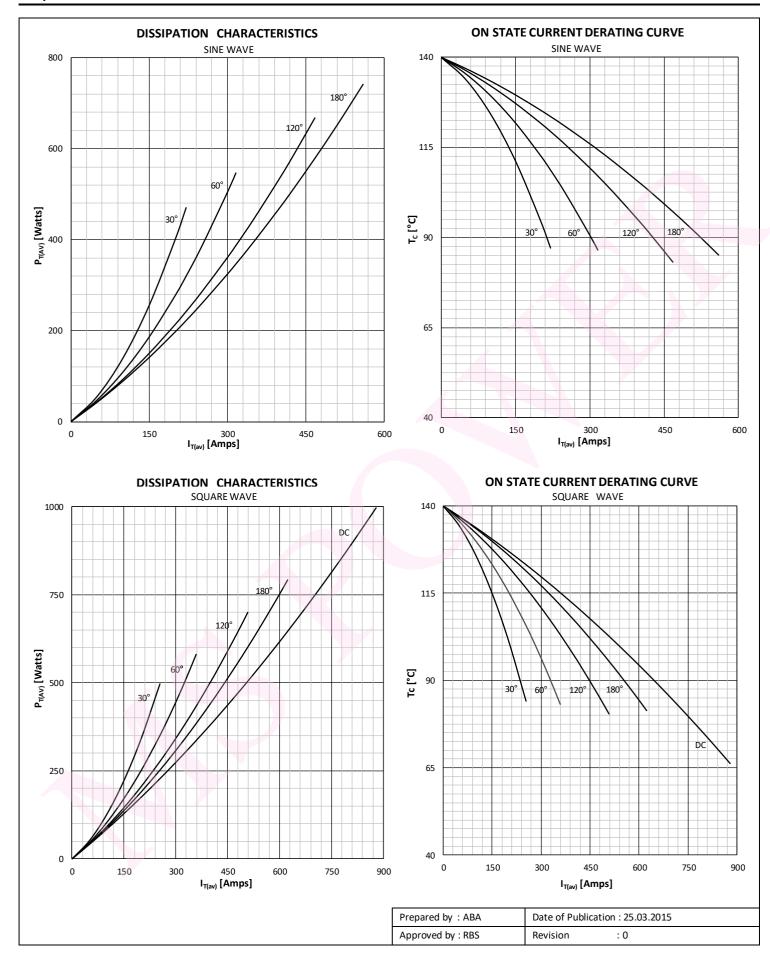


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		140	200 - 1800	V
V RSM	Non-repetitive peak reverse voltage		140	300 - 1900	٧
V DRM	Repetitive peak off-state voltage		140	200 - 1800	V
I RRM	Repetitive peak reverse current	V= V RRM	140	50	mA
I DRM	Repetitive peak off-state current	V= V DRM	140	50	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, T _c =85°C		560	Α
I RMS	RMS on-state current			879	Α
		Sine wave, 10 ms	25	17000	Α
I TSM	Surge on-state current	Without reverse voltage	140	14500	Α
		Sina ways 10 ma	25	1445 x 10 ³	A ² s
l² t	I² t	Sine wave, 10 ms Without reverse voltage	140	1051 x 10 ³	A ² s
Vт	On-state voltage	On-state current = 1000A	25	1.27	V
V T(TO)	Threshold voltage		140	0.80	V
r T	On-state slope resistance		140	0.38	mΩ
	· · · · · · · · · · · · · · · · · · ·		140	0.00	11122
SWITCH			1	T T	
di/dt	Critical rate of rise of on-state current	$i_{GM}=1A, d_{iG}/dt=1A/\mu s, f=50Hz$	140	100	A/μs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\%V_{DRM}$	140	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	300	mA
I L	Latching current	V _D =6V	25	1000	mA
MOUNT	ING				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per module		0.072	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, per module		0.083	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per module		0.024	°C/W
Тj	Max. junction temperature			140	°C
T stg	Storage temperature			-40 140	°C
V_{ISOL}	Insulation test voltage, RMS	F=50Hz, 1min		3.0	KV
M1	Mounting torque			7 ± 15%	Nm
M2	Terminal connection torque			12 ± 15%	Nm
W	Weight (Approx.)			650	gm

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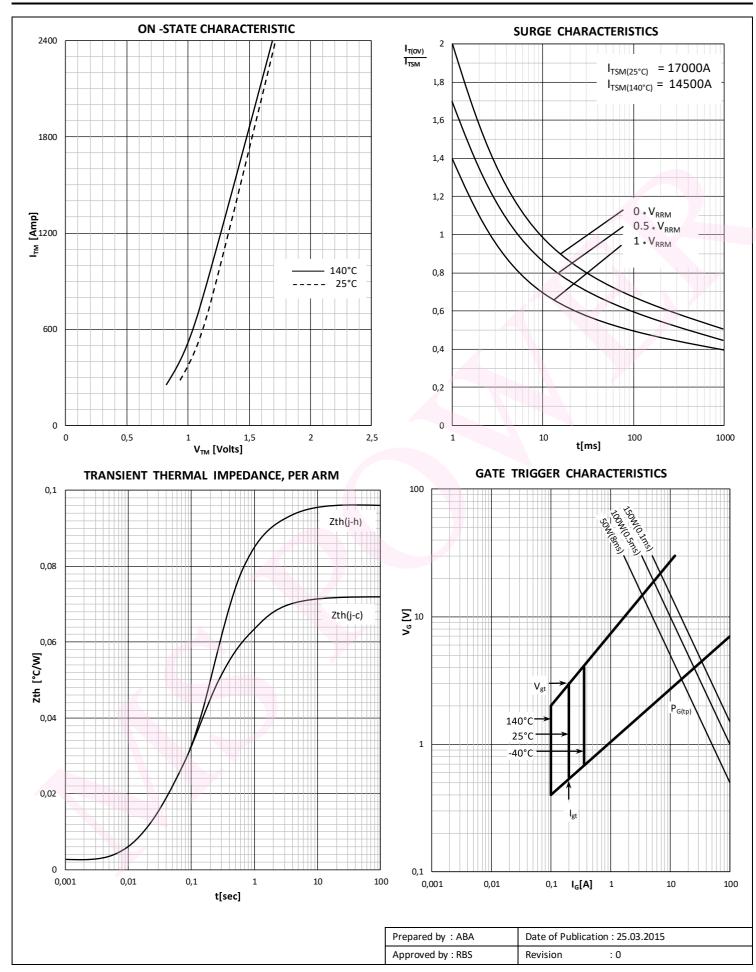




Technical Information Thyristor Modules

MS TZ560

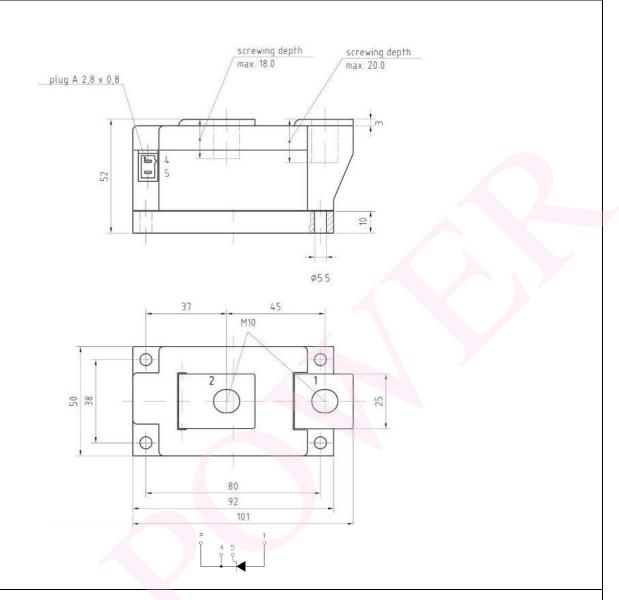




MS TZ560



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Technical Information Thyristor Modules

MS TZ560



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