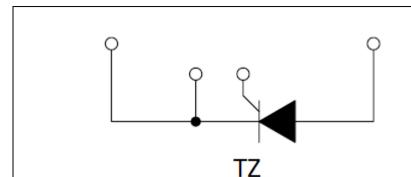
**MS TZ740** 





### **Key Parameters**

Vdrm / Vrrm	= 2200V
It(AV)	= 819A
Ітѕм	= 30000A
V <sub>T(TO)</sub>	= 0.82V
rт	= 0.17mΩ

#### 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	740	К	ХХ
Fixed code	TZ - Thyristor Module	Current Code	Technology K = Pressure Contact Technology	Voltage Code Code X 100 = V <sub>DRM</sub> /V <sub>RRM</sub>
Order Code N	IS TZ740K22 : 2200V V <sub>D</sub>	о <sub>RM</sub> ,V <sub>RRM</sub> , Thyris	stor Module	
			Prepared by : ABA	Date of Publication : 25.03.2015
			Approved by : RBS	Revision : 0

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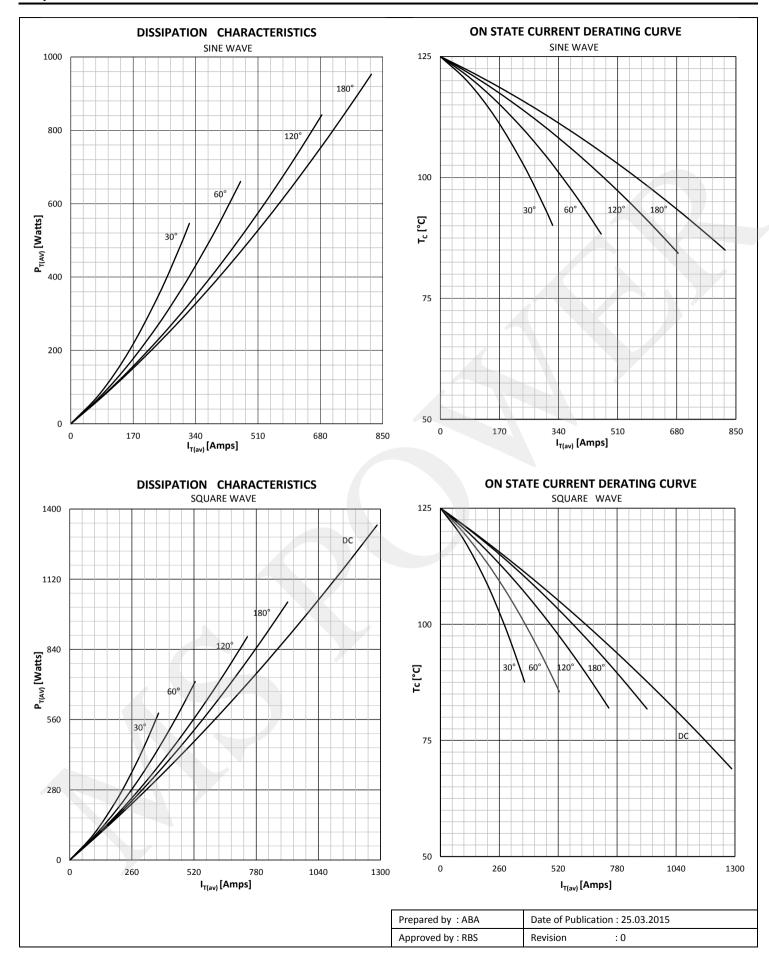


Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	2000 - 2200	V
V RSM	Non-repetitive peak reverse voltage		125	2100 - 2300	V
V drm	Repetitive peak off-state voltage		125	2000 - 2200	V
I RRM	Repetitive peak reverse current	V= V RRM	125	170	mA
I DRM	Repetitive peak off-state current	V= V drm	125	170	mA
CONDU	CTING	-			
I T (AV)	Mean on state current	180° sin ,50 Hz, T <sub>c</sub> =85°C		819	А
I RMS	RMS on-state current			1286	А
		Sine wave, 10 ms	25	30000	А
I TSM Surge on-state current	Surge on-state current	Without reverse voltage	125	26500	A
<sup>2</sup> t   <sup>2</sup> t		Sine wave, 10 ms Without reverse voltage	25	4500 x 10 <sup>3</sup>	A²s
	l <sup>2</sup> t		125	3511 x 10 <sup>3</sup>	A²s
Vт	On-state voltage	On-state current = 3000A	125	1.51	V
V T(TO)	Threshold voltage		125	0.82	V
r T	On-state slope resistance		125	0.17	mΩ
SWITCH di/dt	Critical rate of rise of on-state current	i 10 d /dt 10/00 f 5015	125	200	A /u.a
		$i_{GM}$ =1A, $d_{iG}/dt$ =1A/ $\mu$ s, f=50Hz			A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\% V_{DRM}$	125	1000	V/µs
GATE	Octo triana anna t		05	000	
l <sub>gt</sub>	Gate trigger current	V <sub>D</sub> =6V	25	200	mA
V <sub>gt</sub>	Gate trigger voltage	V <sub>D</sub> =6V	25	3.0	V
I <sub>н</sub>	Holding current	$V_{D}=6V$ , gate open circuit	25	500	mA
ΙL	Latching current	V <sub>D</sub> =6V	25	2000	mA
MOUNT					
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		0.015	°C/W
T j	Max. junction temperature			125	°C
T stg	Storage temperature			-40 125	°C
VISOL	Insulation test voltage,RMS	F=50Hz, 1min		3.0	KV
M1	Mounting torque			6 ± 15%	Nm
M2	Terminal connection torque			18 ± 15%	Nm
W	Weight (Approx.)			2100	gm

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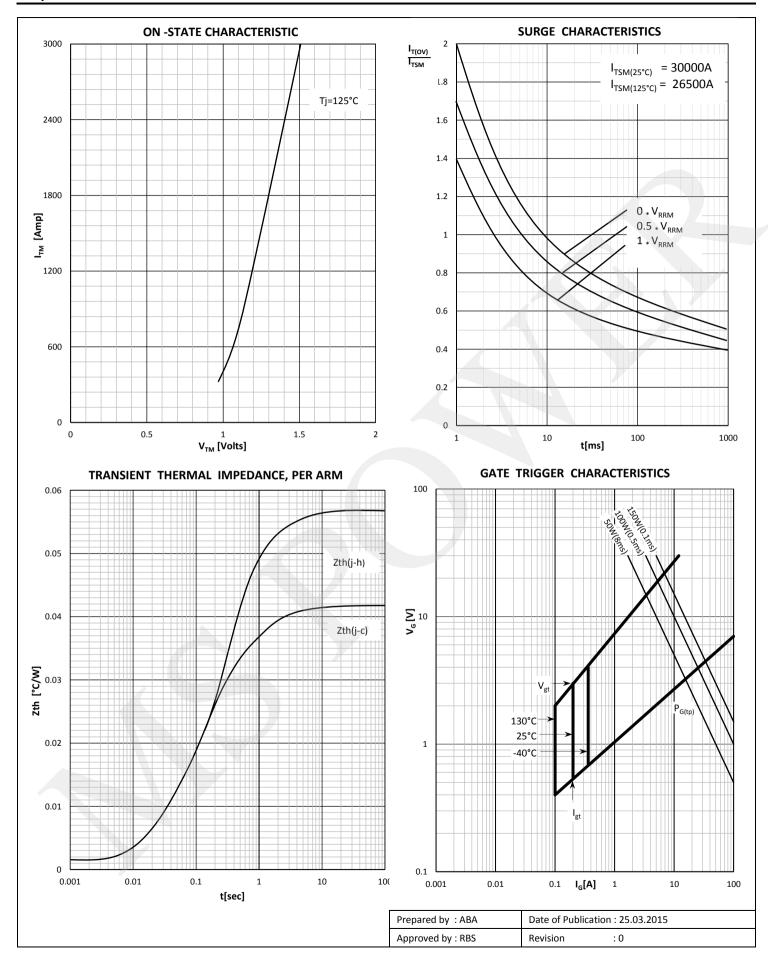
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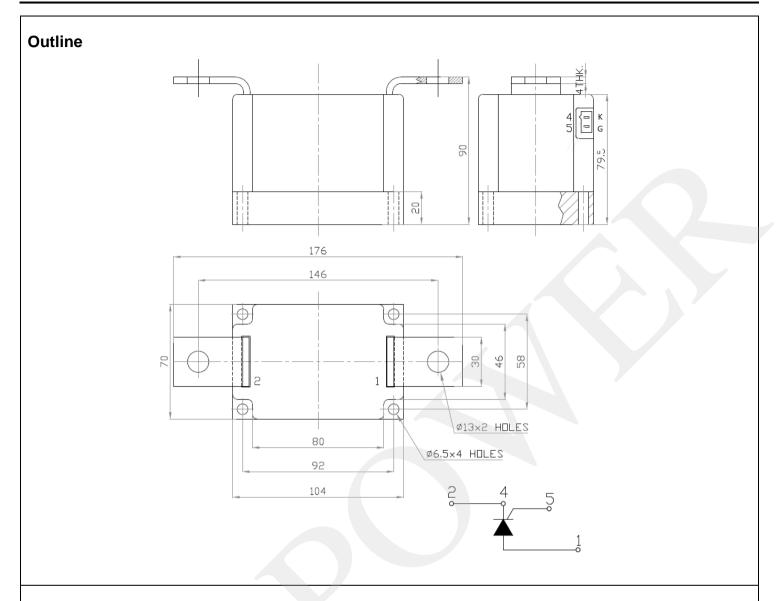
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# **MS TZ740**



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