



### **Key Parameters**

VDRM / VRRM = 2400 V= 261A  $I_{T(AV)}$ = 9500AITSM  $V_{T(TO)}$ = 0.85 V $= 0.64 \text{m}\Omega$ rт

#### **Features**

- Full blocking capability over wide temperature rangeHeat transfer through aluminium oxide ceramic isolated metal baseplate
- Pressure contacts technology for high reliability
- UL Recognized, file no. E505556

### **Applications**

- Power Supplies
- DC motor control
- Controlled Rectifiers
- AC switch

### **Ordering Information**

MS	TD	261	К	24
Fixed code	TD- Thyristor- Diode Module	Current Code	Technology K = Pressure Contact Technology	Voltage Code Code X 100 = V <sub>DRM</sub> /V <sub>RRM</sub>
Order Code MS TD261K24 : 2400V VDRM, VRRM, Thyristor-Diode Module				

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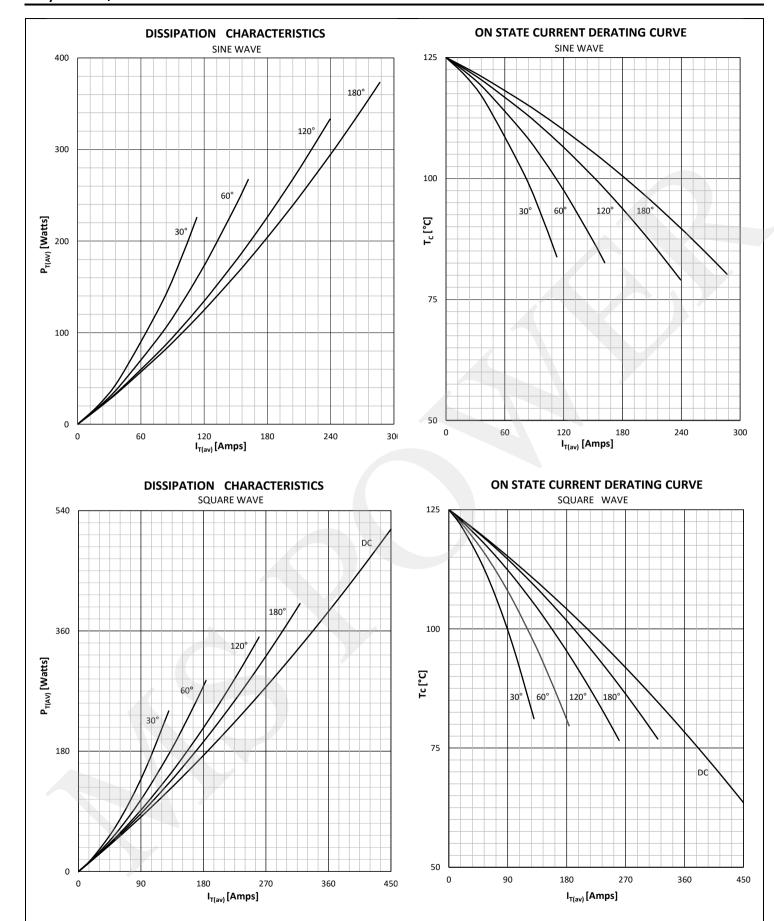
# Technical Information Thyristor / Diode Modules

# **MS TD261**



Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
вьоскі	NG				
V RRM	Repetitive peak reverse voltage		125	2000 - 2400	V
V RSM	Non-repetitive peak reverse voltage		125	2100 - 2500	V
V DRM	Repetitive peak off-state voltage		125	2000 - 2400	V
I RRM	Repetitive peak reverse current	V= V RRM	125	70	mA
I DRM	Repetitive peak off-state current	V= V DRM	125	70	mA
CONDU	CTING		,		
I T (AV)	Mean on state current	180° sin ,50 Hz, T <sub>c</sub> =85°C		261	Α
I RMS	RMS on-state current			450	А
		Sine wave, 10 ms	25	9500	А
I TSM	Surge on-state current	Without reverse voltage	125	8000	Α
		Sing ways 40 mg	25	451000	A²s
l² t	I² t	Sine wave, 10 ms Without reverse voltage	125	320000	A <sup>2</sup> s
Vт	On-state voltage	On-state current = 800A	125	1.45	V
V T(TO)	Threshold voltage	On state current = 500A	125	0.85	V
. ,			125	0.64	mΩ
rт	On-state slope resistance		125	0.64	11122
SWITCH					
di/dt	Critical rate of rise of on-state current	f=50Hz, I <sub>GM</sub> =1A, di <sub>G</sub> /dt=1A/μs	125	250	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 <sub>D</sub> =6V	25	200	mA
V gt	Gate trigger voltage	V <sub>D</sub> =6V	25	3.0	V
I <sub>H</sub>	Holding current	V <sub>D</sub> =6V, gate open circuit	25	600	mA
I <sub>L</sub>	Latching current	V <sub>D</sub> =6V	25	1000	mA
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per module		0.12 0.06	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, per arm per module		0.14 0.07	°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
<b>A</b>	File No.			E505556	
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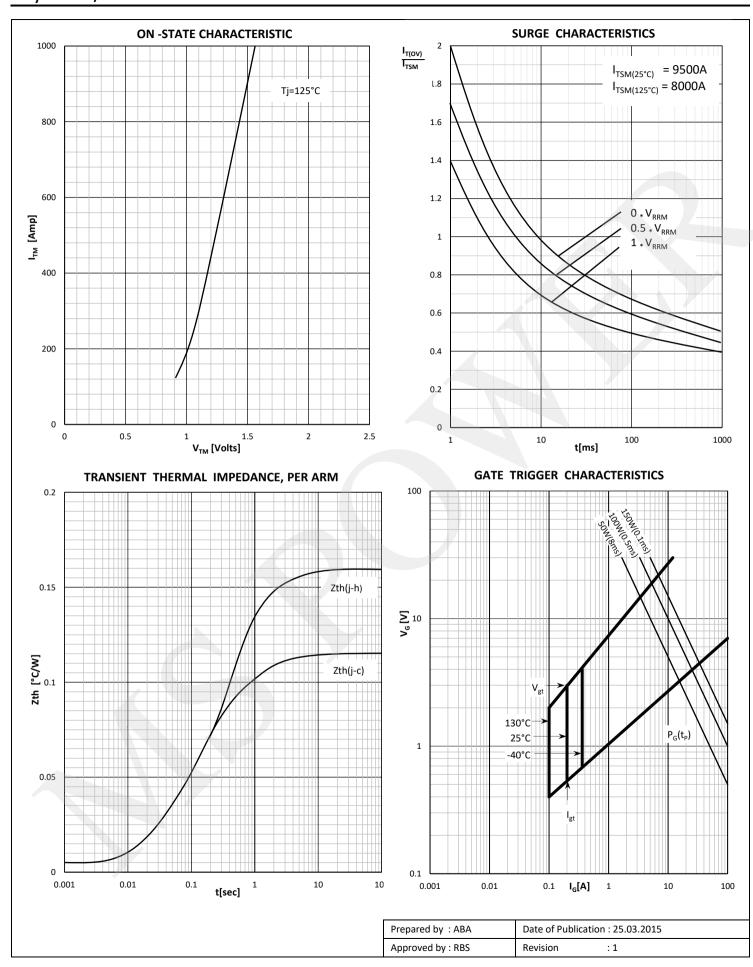
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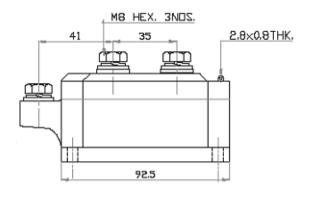
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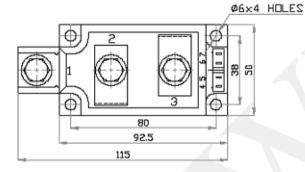


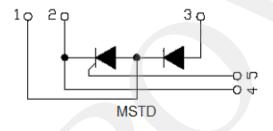




### **Outline**







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### **MS TD261**



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