MS T2505





Key Parameters

VDRM / VRRM = 1800VI_{T(AV)} = 2505A=47kA**I**TSM $V_{T(TO)}$ = 0.90V $= 0.15 \text{m}\Omega$ rт

Features

- Full blocking capability over wide temperature
- High Surge current capability
- Hermetic metal case with ceramic insulator

- ApplicationsBattery ChargersMedical Equipment
- **UPS**
- **Power Supplies**
- Motor control
- Controlled Rectifiers
- Transportation
- Induction Heating
- Welding

Ordering Information

MS T	2505	С	ХX
Phase Control Thyristor	Current Code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V _{DRM} /V _{RRM}
Order Code MS T2505C18: 1800V V _{DRM} , V _{RRM} , 26mm clamp height capsule thyristor			

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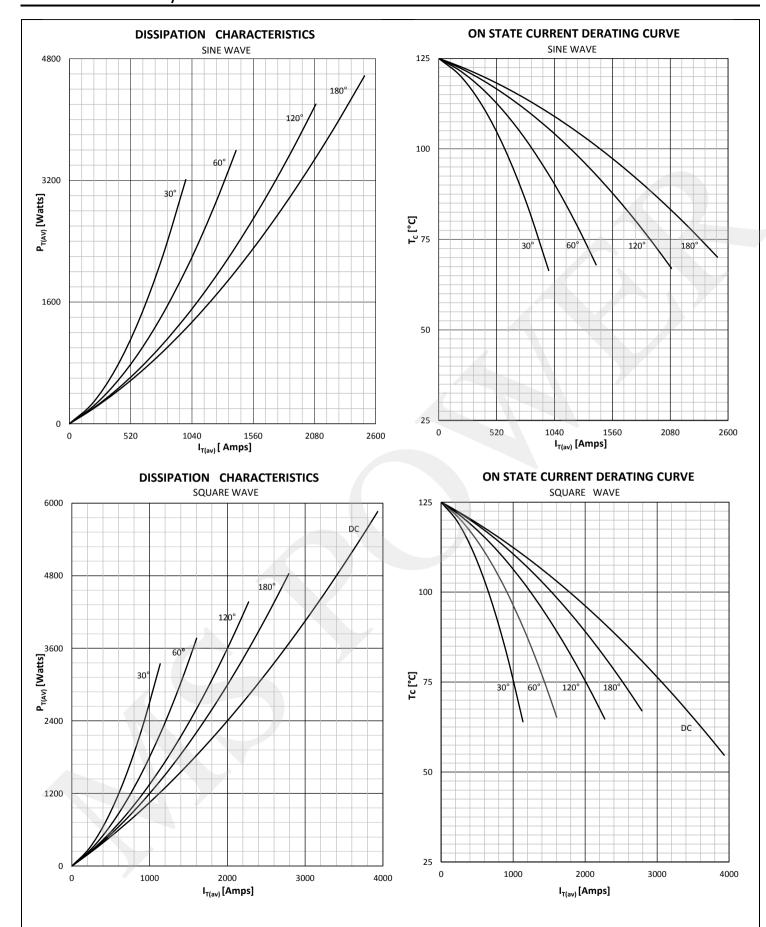


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	1000 - 1800	V
V RSM	Non-repetitive peak reverse voltage		125	1100 - 1900	V
V DRM	Repetitive peak off-state voltage		125	1000 - 1800	V
I RRM	Repetitive peak reverse current	V= V RRM	125	100	mA
I DRM	Repetitive peak off-state current	V= V DRM	125	100	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, T _c =70°C, Double side cooled		2505	Α
I RMS	RMS on-state current	T _c =70°C, Double side cooled		3933	А
	_	Sine wave, 10 ms	25	47000	А
I TSM	Surge on-state current	Without reverse voltage	125	45000	Α
		Sine wave, 10 ms	25	11045 x 10 ³	A ² s
l² t	I² t	Sine wave, 10 ms Without reverse voltage	125	10125 x 10 ³	A²s
Vт	On-state voltage	On-state current = 5000A	125	1.65	V
V T(TO)	Threshold voltage		125	0.90	V
rт	On-state slope resistance		125	0.15	mΩ
SWITCH	ING			1	
di/dt	Critical rate of rise of on-state current		125	200	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\%V_{DRM}$	125	1000	V/µs
Tq	Circuit commutated turn off time	I_{TM} =1000A, -di _F /dt = 10A/ μ s, V_R = 50V, t_p =1000 μ s Reapplied dv/dt = 20V/ μ s, V_{DR} = 67% V_{DRM}	125	360	μs
GATE		1 (Cappined αναί – 20 ν/μβ, ν Βκ – 67 / 8 ν Βκικί			
l gt	Gate trigger current	V _D =6V	25	250	mA
V gt	Gate trigger voltage	V _D =6V	25	3.0	V
I _H	Holding current	V _D =6√, gate open circuit	25	800	mA
I _L	Latching current	V _D =6V	25	1000	mA
MOUNTI	NG		1	1	
R th(j-c)	Thermal impedance, sin 180°	Junction to case, Double side cooled		0.012	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, Double side cooled		0.014	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, Double side cooled		0.003	°C/W
Тj	Max. junction temperature			125	°C
T stg	Storage temperature			-40 125	°C
М	Clamping Force			30 - 40	kN
	Weight (Approx.)			850	gm

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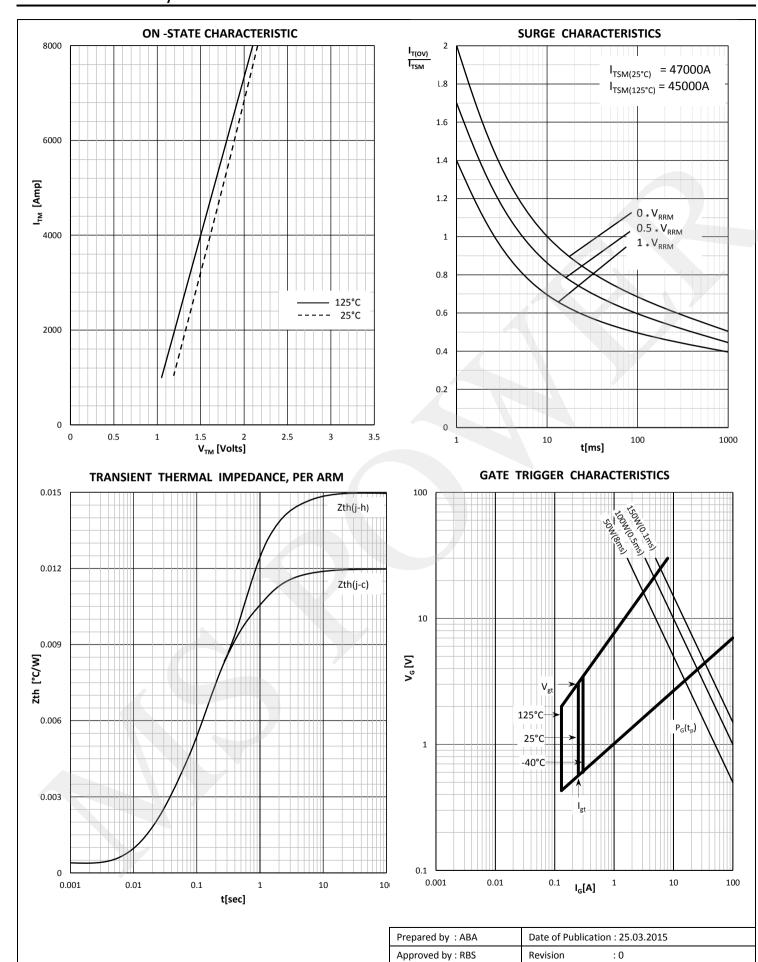
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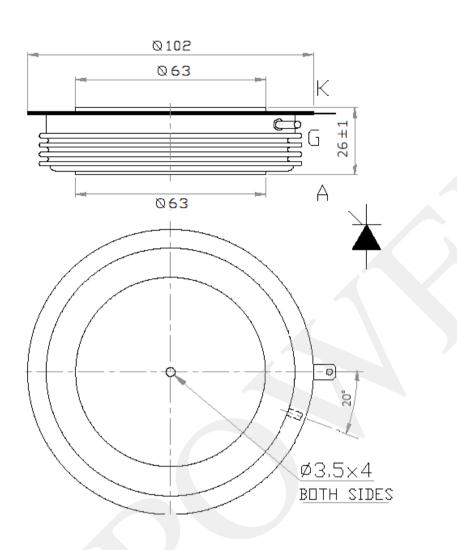




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