MS T3245





Key Parameters

VDRM / VRRM = 800 V= 3245AI_{T(AV)} =35kA**I**TSM $V_{T(TO)}$ = 0.722 V $= 0.088 m\Omega$ rт

Features

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

- **Applications** Battery Chargers
- Medical Equipment
- UPS
- Power Supplies
- Motor control
- Controlled Rectifiers
- Transportation
- Induction Heating
- Welding

Ordering Information

MST	3245	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 T3245C08: 800V VDRM, VRRM, 16mm clamp height capsule thyristor			

Prepared by : ABA	Date of Publication :	: 25.03.2015
Approved by : RBS	Revision :	0

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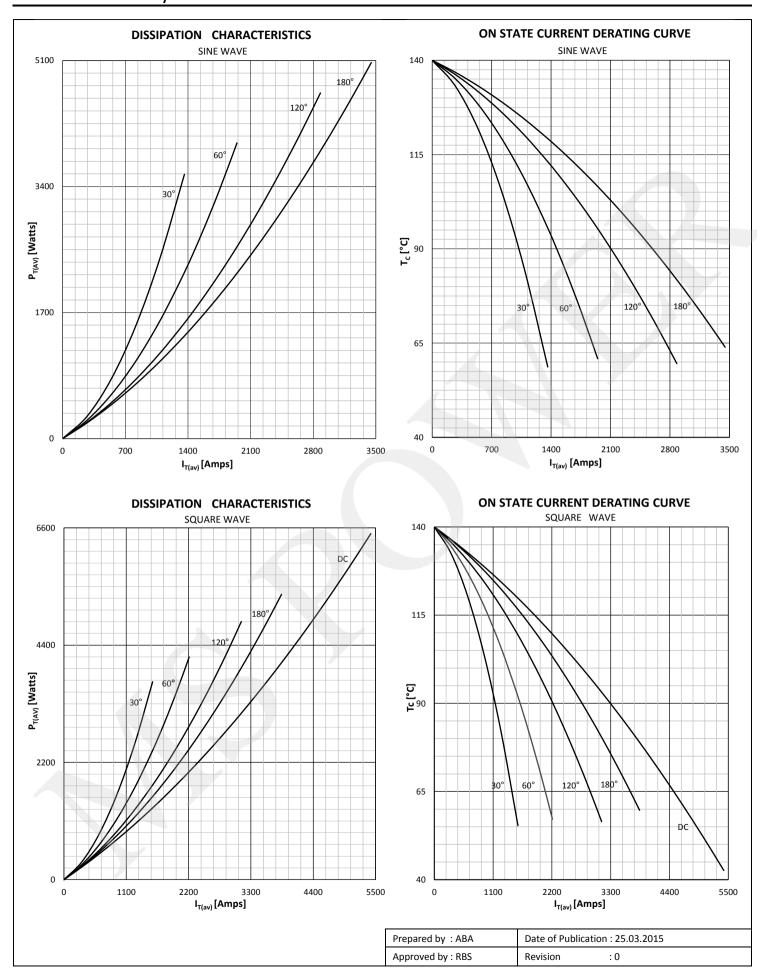


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		140	200 - 800	V
V RSM	Non-repetitive peak reverse voltage		140	300 - 900	V
V DRM	Repetitive peak off-state voltage		140	200 - 800	V
I RRM	Repetitive peak reverse current	V= V RRM	140	200	mA
I DRM	Repetitive peak off-state current	V= V DRM	140	200	mA
CONDU	CTING		II.		
I T (AV)	Mean on state current	180° sin ,50 Hz, T_c =70°C, Double side cooled 180° sin ,50 Hz, T_c =64°C, Double side cooled		3245 3450	А
I RMS	RMS on-state current	T _c =64°C, Double side cooled		5416	Α
	_	Sine wave, 10 ms	25	35000	Α
I TSM	Surge on-state current	Without reverse voltage	140	33500	Α
	l² t	Sine wave, 10 ms	25	6125 x 10 ³	A²s
l² t		Without reverse voltage	140	5611 x 10 ³	A ² s
Vт	On-state voltage	On-state current = 1500A	140	1.0	V
V T(TO)	Threshold voltage		140	0.722	V
rт	On-state slope resistance		140	0.088	mΩ
SWITCH	ING				
di/dt	Critical rate of rise of on-state current		140	100	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\%V_{DRM}$	140	500	V/µs
GATE	<u> </u>	2			· · ·
l _{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	800	mA
ΙL	Latching current	V _D =6V	25	1000	mA
MOUNTI	NG			<u> </u>	
R th(j-c)	Thermal impedance, sin 180°	Junction to case, Double side cooled		0.015	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, Double side cooled		0.017	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, Double side cooled		0.0025	°C/W
Тj	Max. junction temperature			140	°C
T stg	Storage temperature			-40 140	°C
М	Clamping Force			24 - 26	kN
W	Weight (Approx.)			300	gm

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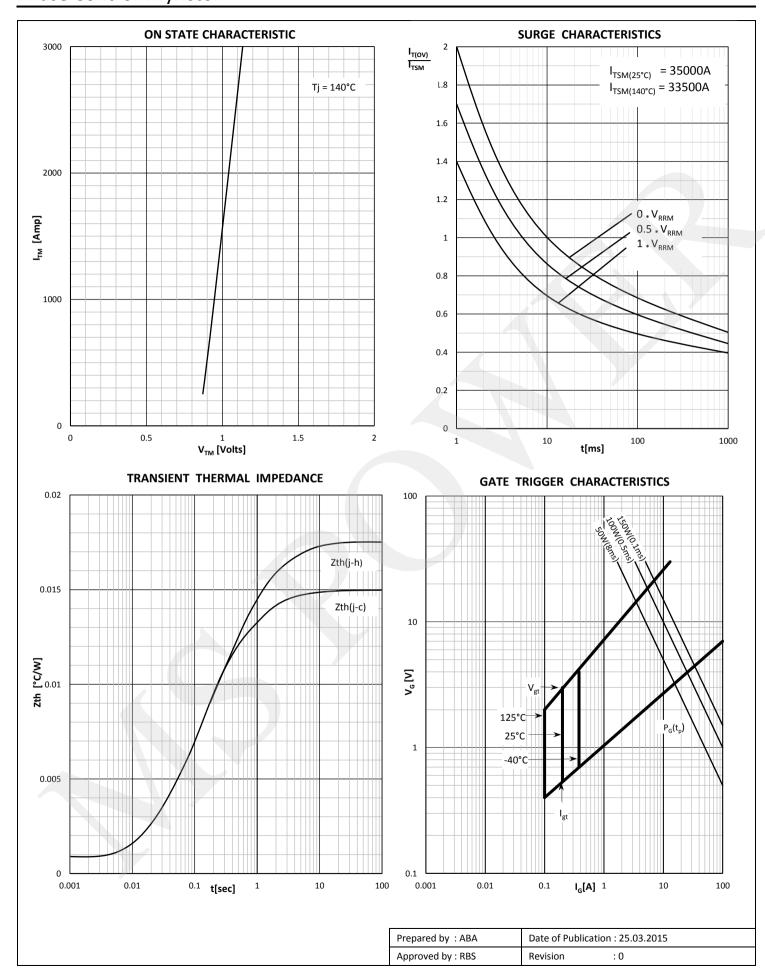
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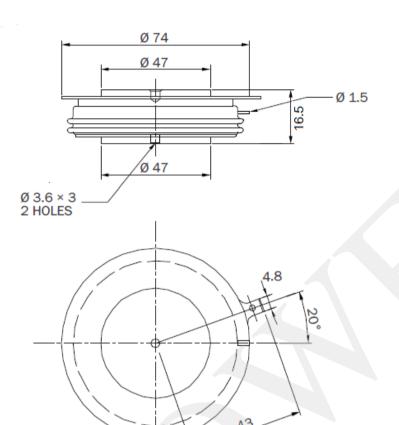




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