MS T2374





Key Parameters

VDRM / VRRM = 3600 VI_{T(AV)} = 2374A=34kA**I**TSM $V_{T(TO)}$ = 1.20 V $= 0.325 m\Omega$ 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

MST	2374	C	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 T2374C36: 3600V V _{DRM} , V _{RRM} , 26mm clamp height capsule thyristor			

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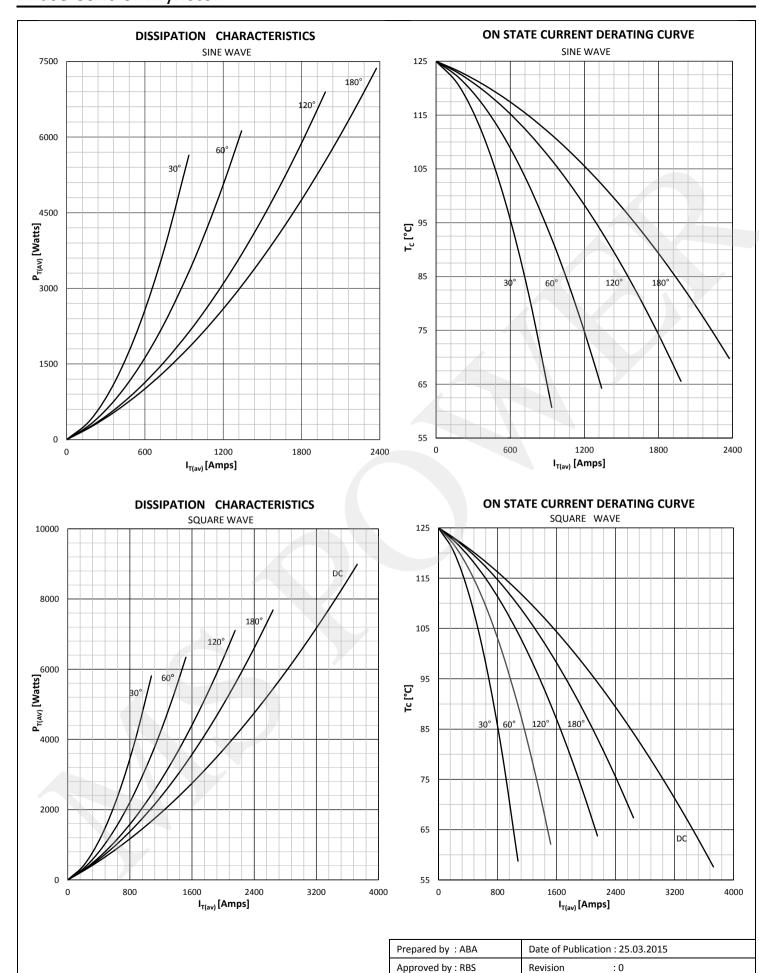


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	3000 - 3600	V
V RSM	Non-repetitive peak reverse voltage		125	3100 - 3700	V
V DRM	Repetitive peak off-state voltage		125	3000 - 3600	V
I RRM	Repetitive peak reverse current	V= V RRM	125	250	mA
I DRM	Repetitive peak off-state current	V= V DRM	125	250	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, T_c =70°C, Double side cooled T_c =85°C, Double side cooled		2374 1937	A
I RMS	RMS on-state current	T _c =70°C, Double side cooled		3727	Α
	_	Sine wave, 10 ms	25	34000	Α
I TSM	Surge on-state current	Without reverse voltage	125	32000	Α
	l² t	Sine wave, 10 ms Without reverse voltage	25	5780 x 10 ³	A ² s
l² t			125	5120 x 10 ³	A²s
Vт	On-state voltage	On-state current = 2000A	125	1.85	V
V T(TO)	Threshold voltage		125	1.20	V
rт	On-state slope resistance		125	0.325	mΩ
SWITCH	INC				
di/dt	Critical rate of rise of on-state current Non-repetitive (f=1Hz)	From 75%V _{DRM} up to 2400A Gate 10V 5Ω, di _G /dt≥1A/ μs	125	200	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\%V_{DRM}$	125	1000	V/µs
GATE	<u>-</u>				
l _{at}	Gate trigger current	V _D =6V	25	300	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	1500	mA
MOUNTI	NG				
R th(j-c)	Thermal impedance, DC	Junction to case, Double side cooled		0.0075	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, Double side cooled		0.0086	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, Double side cooled		0.002	°C/W
Тj	Max. junction temperature			125	°C
T stg	Storage temperature			-40 125	°C
М	Clamping Force			40 - 50	kN
W	Weight (Approx.)			1150	gm

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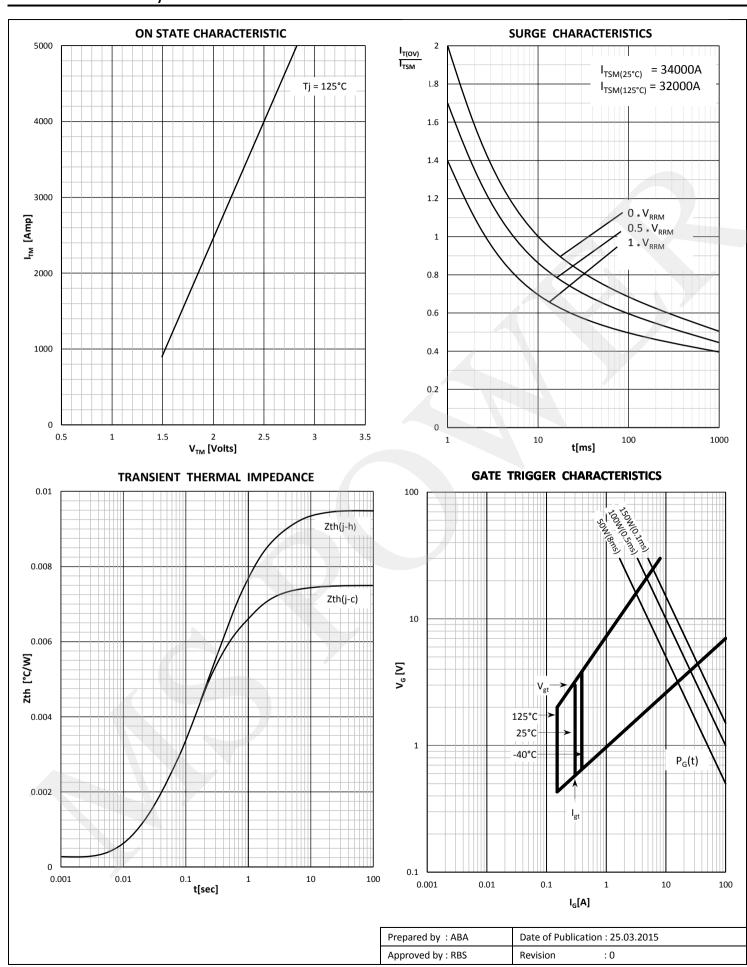
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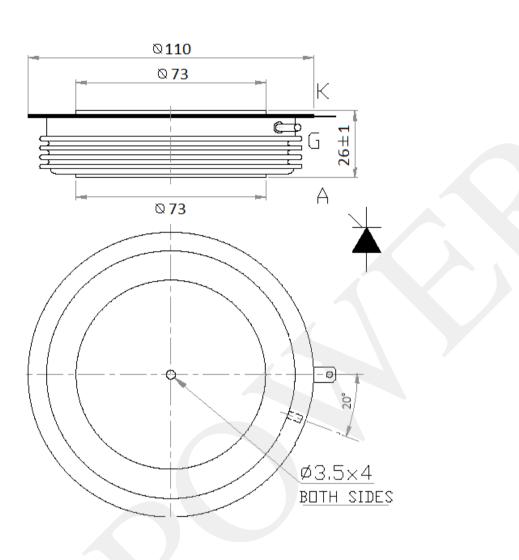




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