MS T3604





Key Parameters

VDRM / VRRM = 600 V= 3604AI_{T(AV)} =46kA**I**TSM $V_{T(TO)}$ = 0.69V $= 0.087 m\Omega$ 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

MS T	3604	С	X X
Phase Control Thyristor	Current Code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V_{DRM}/V_{RRM}
Order Code MS T3604C06: 600V V _{DRM} , V _{RRM} , 26mm clamp height capsule thyristor			ule thyristor

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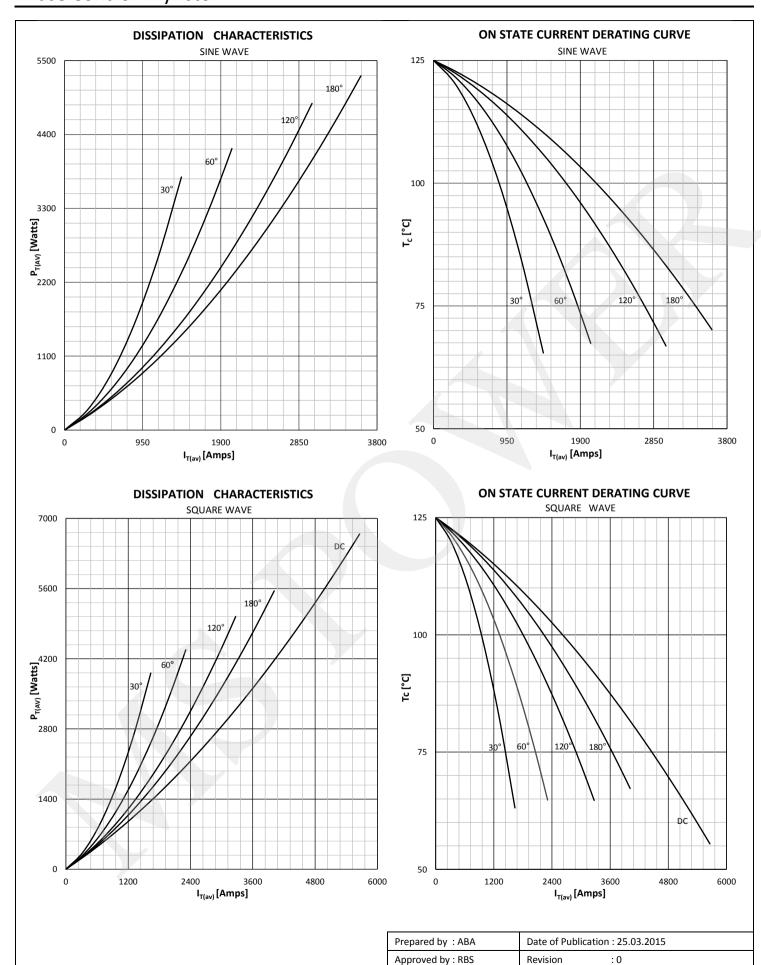


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	200 - 600	V
V RSM	Non-repetitive peak reverse voltage		125	300 - 700	V
V DRM	Repetitive peak off-state voltage		125	200 - 600	V
I RRM	Repetitive peak reverse current	V= V RRM	125	150	mA
I DRM	Repetitive peak off-state current	V= V DRM	125	150	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, T_c =70°C, Double side cooled 180° sin ,50 Hz, T_c =72°C, Double side cooled		3604 3500	А
I RMS	RMS on-state current	T _c =70°C, Double side cooled		5658	А
1	0	Sine wave, 10 ms	25	46000	Α
I TSM	Surge on-state current	Without reverse voltage	125	44500	Α
	l² t	Sine wave, 10 ms	25	10580 x 10 ³	A ² s
I² t		Without reverse voltage	125	9901 x 10 ³	A²s
Vт	On-state voltage	On-state current = 3000A	125	1.00	V
V T(TO)	Threshold voltage		125	0.69	V
rт	On-state slope resistance		125	0.087	mΩ
SWITCH	ING				
di/dt	Critical rate of rise of on-state current		125	100	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\%V_{DRM}$	125	500	 V/μs
GATE	0	S. S			•
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 =6V, gate open circuit	25	800	mA
ΙL	Latching current	V _D =6V	25	1000	mA
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, Double side cooled		0.010	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, Double side cooled		0.012	°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			27 - 45	kN
W	Weight (Approx.)			1600	gm

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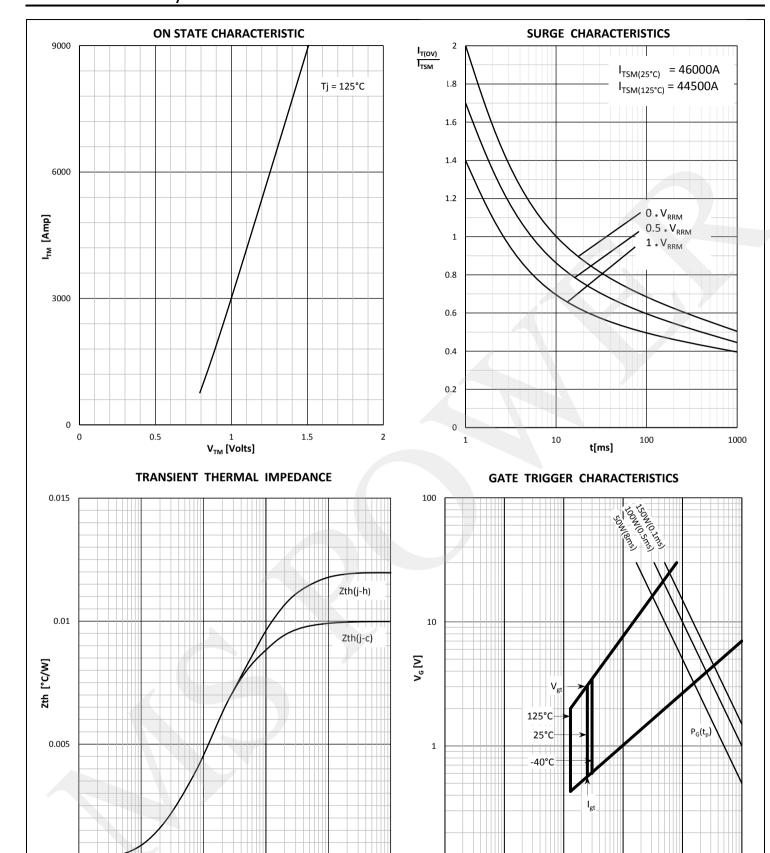
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 $I_G[A]$

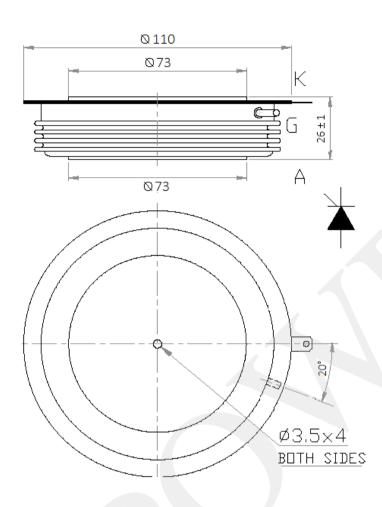
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Outline



MS Power GmbH

Mergenthalerallee 79-81 65760 Eschborn, Germany Web: www.mspowergroup.com Mail: info@mspowergroup.de

Sales & Enquiry:

sales@mspowergroup.de
Technical Support:
solution@mspowergroup.de
After sales Service:
service@mspowergroup.de

Phone: +49 (0) 6196/7768 666 Fax: +49 (0) 6196/7757 888



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