MS T1855





Key Parameters

VDRM / VRRM = 2800V= 1855AI_{T(AV)} =32kA**I**TSM $V_{T(TO)}$ = 1.02V $= 0.25 m\Omega$ rт

Features

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

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

Ordering Information

MST	1855	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 T1855C28: 2800V VDRM, VRRM, 26mm clamp height capsule thyristor			

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Technical Information Phase Control Thyristor

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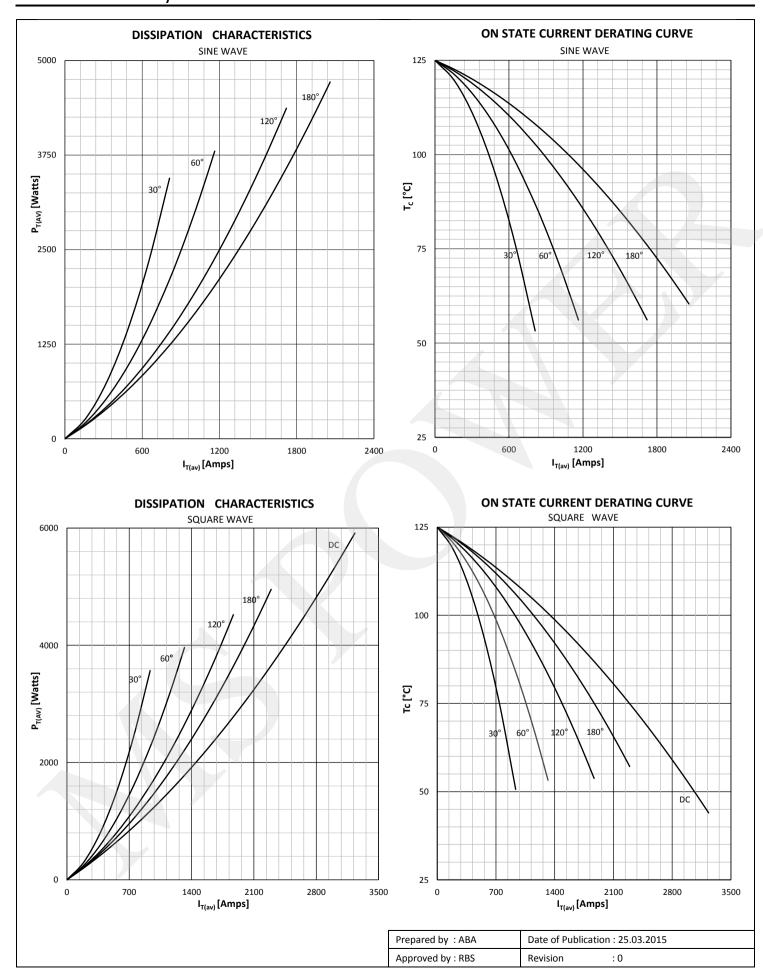


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	2000 - 2800	V
V RSM	Non-repetitive peak reverse voltage		125	2100 - 2900	V
V DRM	Repetitive peak off-state voltage		125	2000 - 2800	V
I RRM	Repetitive peak reverse current	V= V RRM	125	250	mA
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 180° sin ,50 Hz, T _c =60°C, Double side cooled		1855 2060	A
I RMS	RMS on-state current	T _c =60°C, Double side cooled		3234	Α
	_	Sine wave, 10 ms	25	32000	A
I TSM	Surge on-state current	Without reverse voltage	125	30000	Α
		Sine wave, 10 ms	25	5120 x 10 ³	A ² s
l² t	l² t	Without reverse voltage	125	4500 x 10 ³	A²s
Vт	On-state voltage	On-state current = 3000A	125	1.77	V
V T(TO)	Threshold voltage		125	1.02	V
rт	On-state slope resistance		125	0.25	mΩ
SWITCH	ING				
di/dt	Critical rate of rise of on-state current	For 67%V _{DRM} to 3000A, Gate 30V/10Ω, t,<0.5μs	125	150	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 _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	200	mA
ΙL	Latching current	V _D =6V	25	1000	mA
MOUNTI	NG				
R th(j-c)	Thermal impedance, DC	Junction to case, Double side cooled		0.0125	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, Double side cooled		0.016	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, Double side cooled		0.004	°C/W
Тj	Max. junction temperature			125	°C
T stg	Storage temperature			-40 125	°C
М	Clamping Force			40 - 50	kN
W	Weight (Approx.)			950	gm

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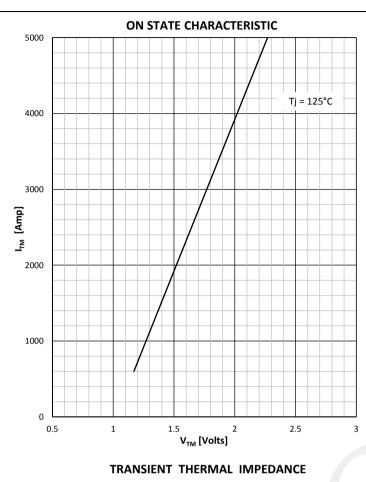


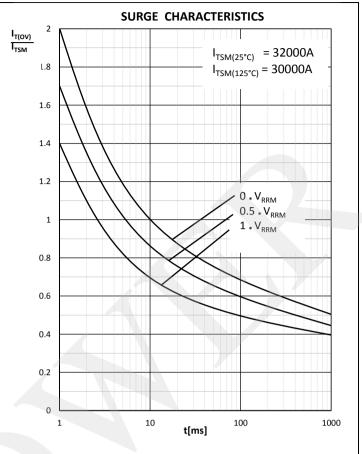


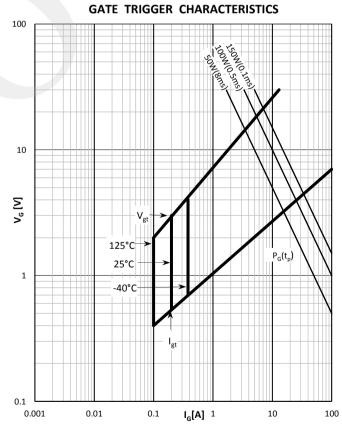
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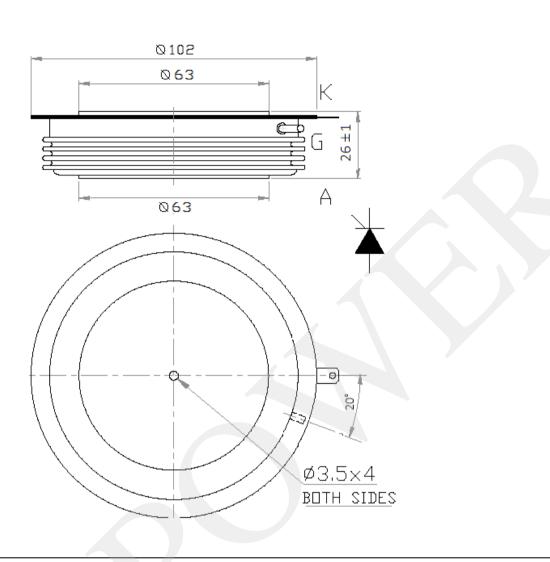


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