MS TT460





Key Parameters

 $\begin{array}{lll} V_{DRM} \, / \, V_{RRM} & = 1800 V \\ I_{T(AV)} & = 460 A \\ I_{TSM} & = 18000 A \\ V_{T(TO)} & = 0.88 V \\ r_{T} & = 0.45 m \Omega \end{array}$

Features

- Full blocking capability over wide temperature range
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Pressure contacts technology for high reliability
- UL Recognized, file no. E505556

Applications

- Power Supplies
- DC motor control
- Controlled Rectifiers
- AC switch

Ordering Information

MS	TT	460	K	18
Fixed code	TT- Thyristor- Thyristor Module	Current Code	Technology K = Pressure Contact Technology	Voltage Code Code X 100 = V _{DRM} /V _{RRM}
Order Code, MS TT460K19 : 1900V V, Thyrister Thyrister Medule				

Order Code MS TT460K18: 1800V VDRM, VRRM, Thyristor-Thyristor Module

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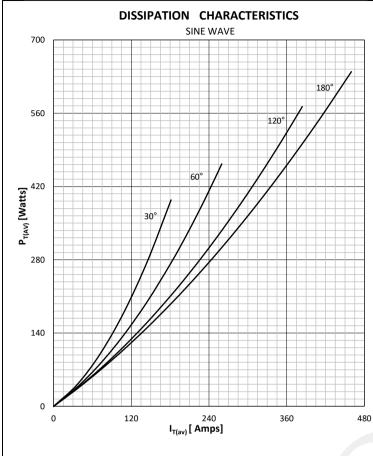
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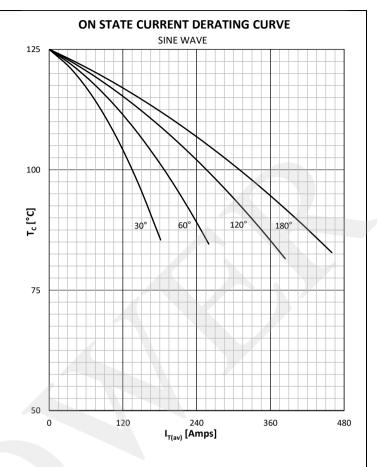


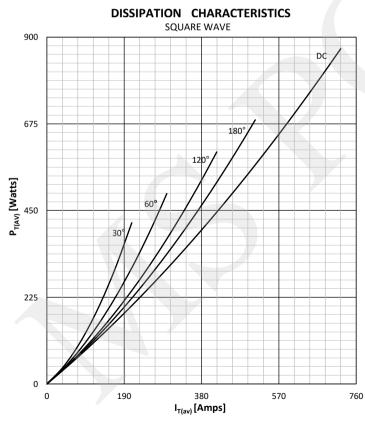
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
вьоскі	NG				
V RRM	Repetitive peak reverse voltage		125	200 - 1800	V
V RSM	Non-repetitive peak reverse voltage		125	300 - 1900	V
V DRM	Repetitive peak off-state voltage		125	200 - 1800	V
I RRM	Repetitive peak reverse current	V= V RRM	125	200	mA
I DRM	Repetitive peak off-state current	V= V DRM	125	200	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, T _c =83°C 180° sin ,50 Hz, T _c =85°C		460 442	A
I RMS	RMS on-state current	T _c =83°C		722	А
1	Surge on-state current	Sine wave, 10 ms	25	18000	Α
I TSM		Without reverse voltage	125	15500	Α
		Sine wave, 10 ms	25	1620 x 10 ³	A²s
l² t	l² t	Without reverse voltage	125	1201 x 10 ³	A²s
Vт	On-state voltage	On-state current = 1400A	25	1.60	V
V T(TO)	Threshold voltage		125	0.88	V
r T	On-state slope resistance		125	0.45	mΩ
				00	
SWITCH			405	450	Λ /
di/dt	Critical rate of rise of on-state current	V 070/V	125	150	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\%V_{DRM}$	125	1000	V/µs
GATE		V 94	05	000	
I gt	Gate trigger current	V _D =6V	25	200	mA
V gt	Gate trigger voltage	V _D =6V	25	3.0	V
I _н	Holding current	V _D =6V, gate open circuit	25	500	mA
I _L	Latching current	V _D =6V	25	2000	mA
MOUNTI	NG	Lunction to account on the		0.000	
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per module		0.066 0.033	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, per arm per module		0.076 0.038	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per arm per module		0.02 0.01	°C/W
Тj	Max. junction temperature			125	°C
T stg	Storage temperature			-40 150	°C
V _{ISOL}	Insulation test voltage,RMS	F=50Hz, 1min		3.0	KV
M1	Mounting torque			5 ± 15%	Nm
M2	Terminal connection torque			12 ± 15%	Nm
W	Weight (Approx.)			1400	gm
71 ®	File No.			E505556	
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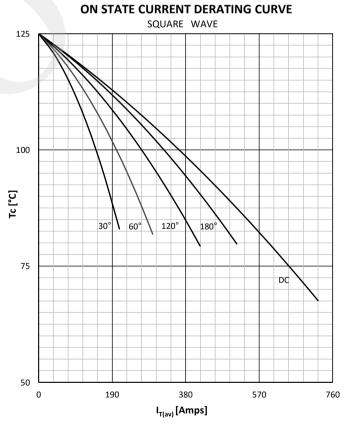
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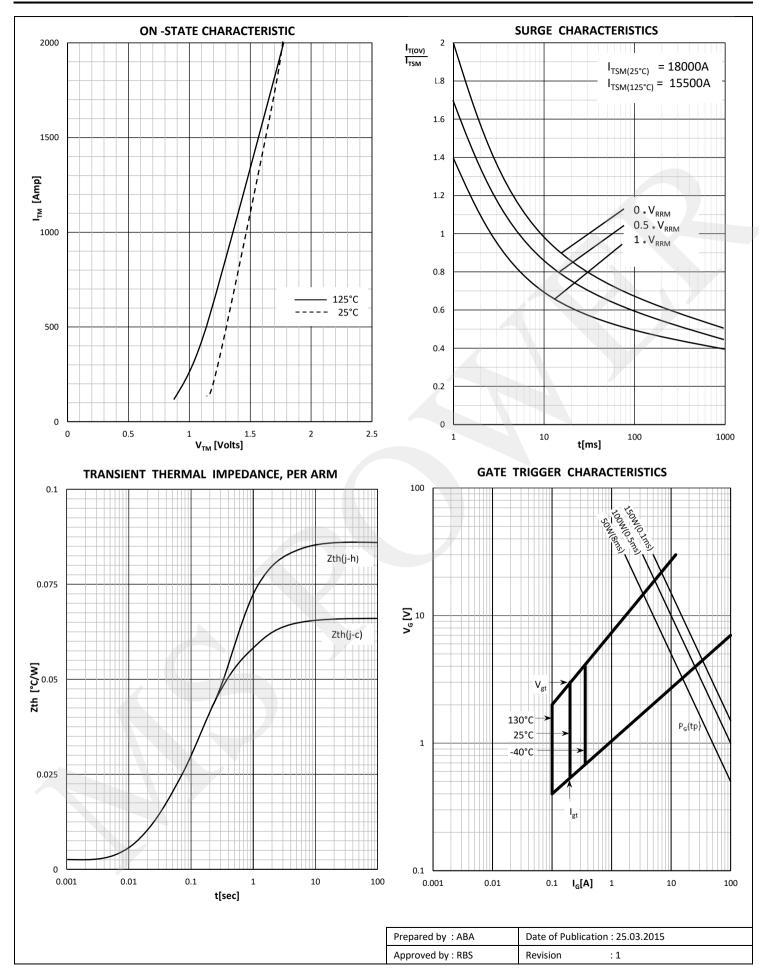




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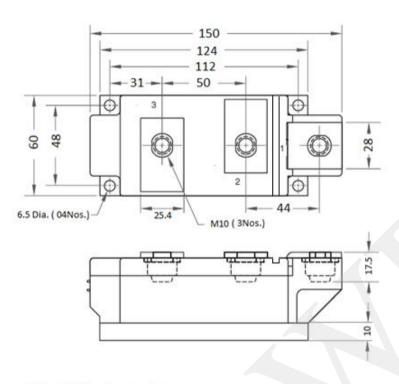
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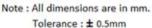


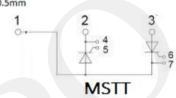




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