MSKP85





Key Parameters

V _{DRM} / V _{RRM}	= 1600V
I _{T(AV)}	= 85A
ITSM	= 1350A
V _{T(TO)}	= 1.20V
rτ	= 2.60mΩ

Features

- Full blocking capability over wide temperature rangeHard soldered joints for high reliability

- ApplicationsPower SuppliesDC motor control
- **Controlled Rectifiers**
- AC switch

Ordering Information

MSKP	85	S	ХХ	U	
Phase Control Thyristor	Current Code	Stud / Flat Base Version	Voltage Code Code X 100 = V _{DRM} /V _{RRM}	Stud Threads U = 1/2" UNF	
Order Code MSKP85S16 : 1600V V _{DRM} , V _{RRM} , Stud base Thyristor with 1/2" UNF threads					
		Prepared by	: ABA Date of Publication :	25.03.2015	

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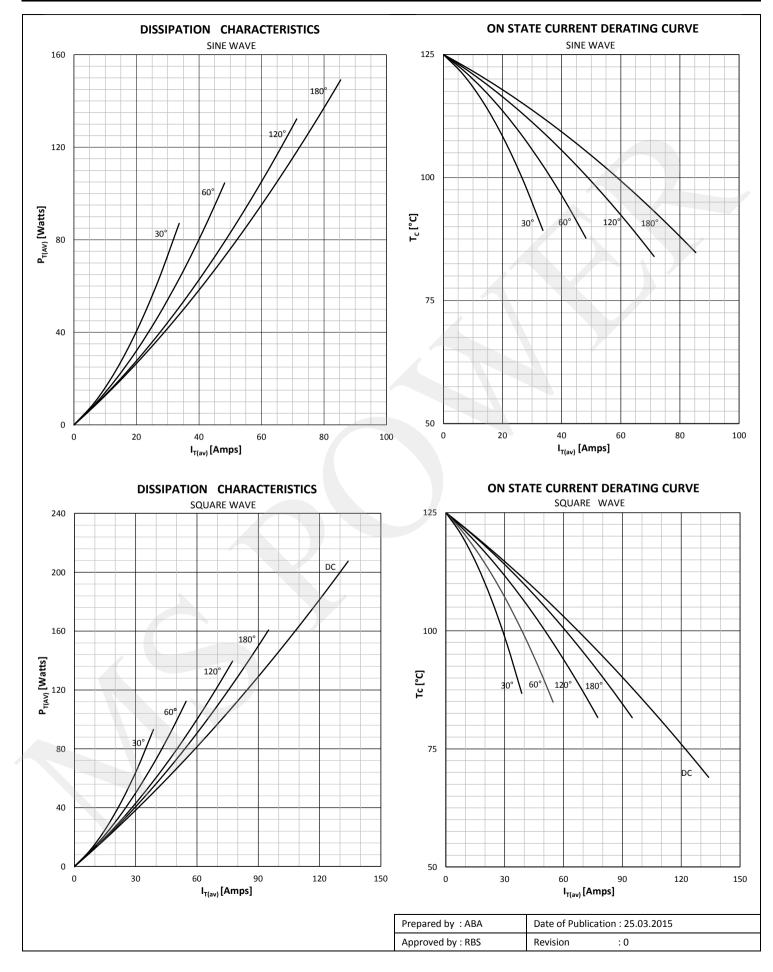


Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	200 - 1600	V
V RSM	Non-repetitive peak reverse voltage		125	300 - 1700	V
V drm	Repetitive peak off-state voltage		125	200 - 1600	V
I RRM	Repetitive peak reverse current	V= V RRM	125	30	mA
I DRM	Repetitive peak off-state current	V= V drm	125	30	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, T _c =85°C		85	А
I RMS	RMS on-state current			134	Α
	_	Sine wave, 10 ms	25	1350	Α
I TSM	Surge on-state current	Without reverse voltage	125	1250	А
		Sine wave, 10 ms	25	9112	A²s
l² t	l ² t	Without reverse voltage	125	7812	A²s
Vт	On-state voltage	On-state current = 270A	125	1.98	V
V t(to)	Threshold voltage		125	1.20	V
rт	On-state slope resistance		125	2.60	mΩ
SWITCH				1	
di/dt	Critical rate of rise of on-state current		125	150	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\% V_{DRM}$	125	1000	V/µs
GATE	1			<u> </u>	
l _{gt}	Gate trigger current	V _D =6V	25	150	mA
V gt	Gate trigger voltage	V _D =6V	25	3.0	V
Iн	Holding current	V_{D} =6V, gate open circuit	25	400	mA
I L	Latching current	V _D =6V	25	600	mA
MOUNT	ING			I I	
R th(j-c)	Thermal impedance, sin 180°	Junction to case		0.27	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case		0.31	°C/W
R th(c-h)	Thermal impedance	Case to heatsink		0.08	°C/W
Тj	Max. junction temperature			125	°C
T stg	Storage temperature			-40 125	°C
М	Mounting torque			14	NM
W	Weight (Approx.)			200	gm

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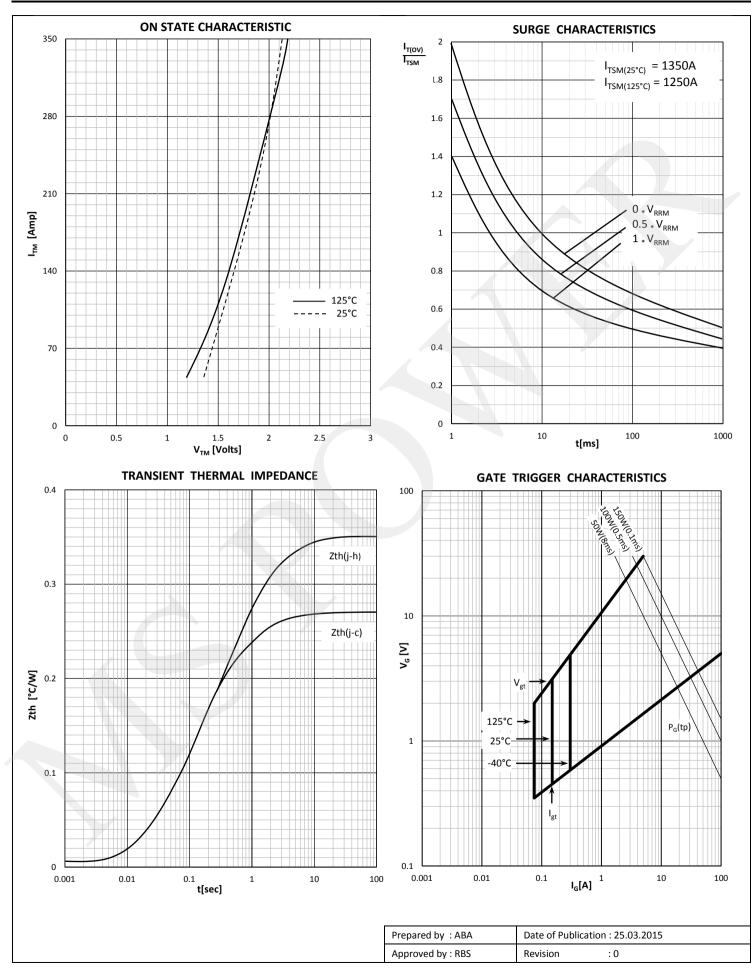
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