MSKP30





Key Parameters

 V_{DRM} / V_{RRM} = 1600V $I_{T(AV)}$ = 30AI_{TSM} = 550A $V_{T(TO)}$ = 0.95 V $= 6.40 \text{m}\Omega$ r _T

Features

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

Applications Power Supplies

- DC motor control
- Controlled Rectifiers
- AC switch

Ordering Information

MSKP	30	S	ХX	U
Phase Control Thyristor	Current Code	Stud / Flat Base Version	Voltage Code Code X 100 = V_{DRM}/V_{RRM}	Stud Threads U = 1/4" UNF
Order Code MSKP30S16U : 1600V Vppy Vppy Stud base Thyristor with 1/4" LINE threads				

V_{DRM}, V_{RRM}, Stud base Thyristor with 1/4" UNF threads

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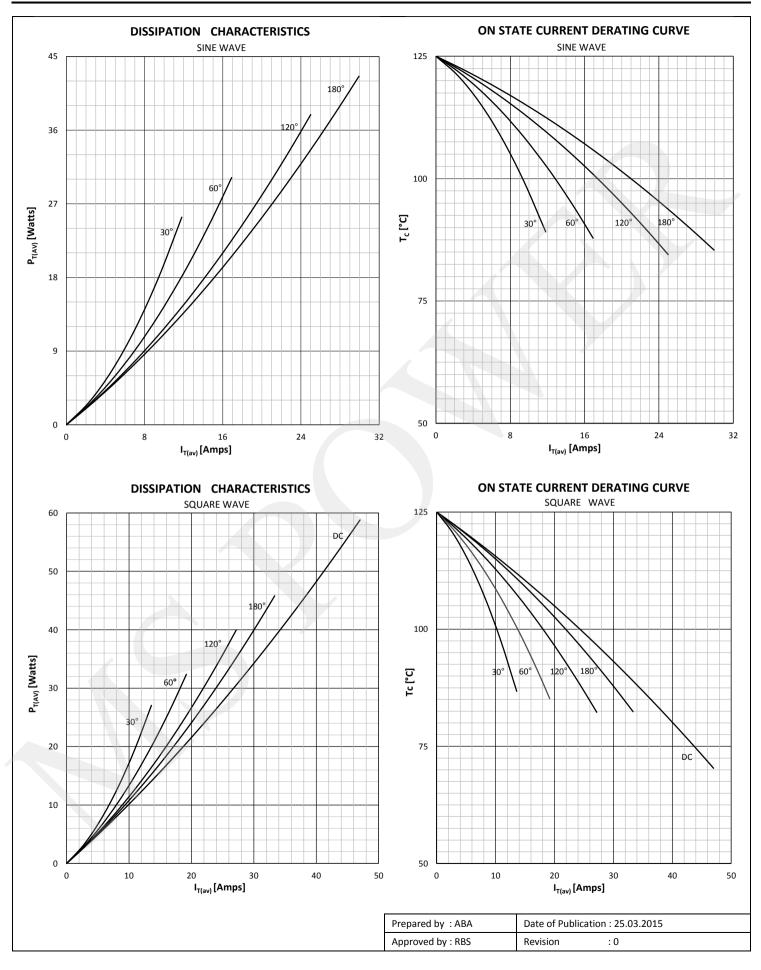


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	200 - 1600	V
V RSM	Non-repetitive peak reverse voltage		125	300 - 1700	V
V DRM	Repetitive peak off-state voltage		125	200 - 1600	V
I RRM	Repetitive peak reverse current	V= V RRM	125	10	mA
I DRM	Repetitive peak off-state current	V= V DRM	125	10	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, T _c =85°C		30	Α
I RMS	RMS on-state current			47	Α
	Surge on-state current	Sine wave, 10 ms	25	550	Α
I TSM		Without reverse voltage	125	500	Α
	l ² t	Sine wave. 10 ms	25	1512	A²s
l² t		Without reverse voltage	125	1250	A ² s
Vт	On-state voltage	On-state current = 100A	125	1.69	V
V T(TO)	Threshold voltage		125	0.95	V
rт	On-state slope resistance		125	6.40	mΩ
SWITCH	ING				
di/dt	Critical rate of rise of on-state current		125	50	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\%V_{DRM}$	125	1000	V/µs
GATE			<u> </u>		
I gt	Gate trigger current	V _D =6V	25	100	mA
V _{gt}	Gate trigger voltage	V _D =6V	25	3.0	V
I _H	Holding current	V _D =6V, gate open circuit	25	150	mA
ΙL	Latching current	V _D =6V	25	300	mA
MOUNTI	NG			1	
R th(j-c)	Thermal impedance, sin 180°	Junction to case		0.93	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case		1.07	°C/W
R th(c-h)	Thermal impedance	Case to heatsink		0.30	°C/W
Тj	Max. junction temperature			125	°C
T stg	Storage temperature			-40 125	°C
М	Mounting torque			2	NM
W	Weight (Approx.)			15	gm

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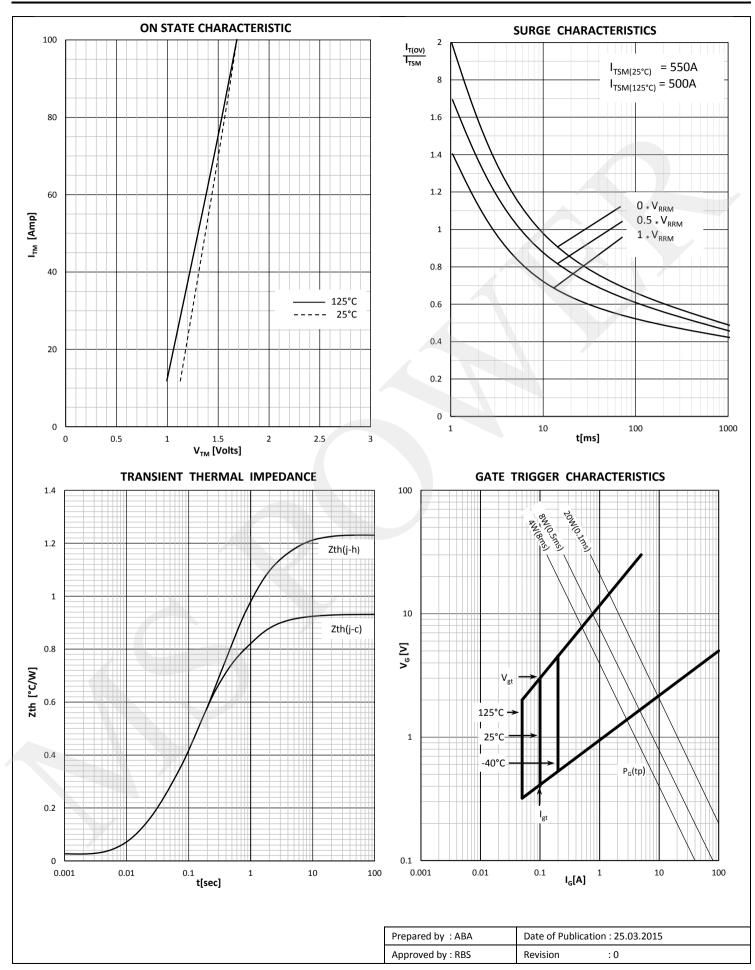
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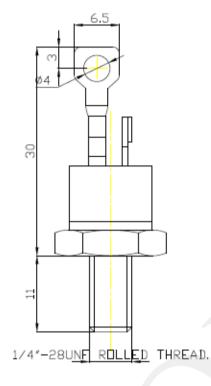


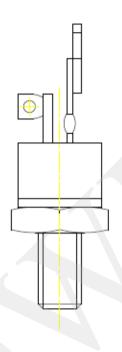


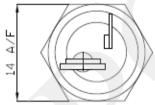
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Outline











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