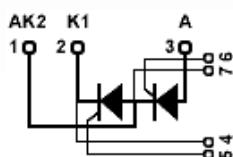


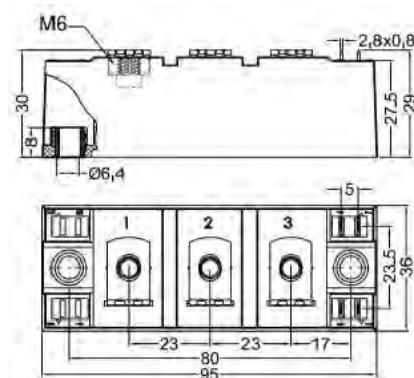
# STT130GK\*\*

## Thyristor-Thyristor Modules

Dimensions in mm (1mm=0.0394")



Type	$V_{RSM}$ $V_{DSM}$	$V_{RRM}$ $V_{DRM}$
	V	V
<b>STT130GK08</b>	900	800
<b>STT130GK12</b>	1300	1200
<b>STT130GK14</b>	1500	1400
<b>STT130GK16</b>	1700	1600
<b>STT130GK18</b>	1900	1800



Symbol	Test Conditions	Maximum Ratings	Unit
$I_{TRMS}, I_{FRMS}$ $I_{TAVM}, I_{FAVM}$	$T_{VJ}=T_{VJM}$ $T_c=85^\circ\text{C}; 180^\circ \text{ sine}$	204 130	A
$I_{tSM}, I_{fSM}$	$T_{VJ}=45^\circ\text{C}$ $V_R=0$ $T_{VJ}=T_{VJM}$ $V_R=0$	4750 5080 4230 4530	A
	$t=10\text{ms (50Hz), sine}$ $t=8.3\text{ms (60Hz), sine}$ $t=10\text{ms(50Hz), sine}$ $t=8.3\text{ms(60Hz), sine}$		
$\int i^2 dt$	$T_{VJ}=45^\circ\text{C}$ $V_R=0$ $T_{VJ}=T_{VJM}$ $V_R=0$	113000 108000 89500 86200	$\text{A}^2\text{s}$
	$t=10\text{ms (50Hz), sine}$ $t=8.3\text{ms (60Hz), sine}$ $t=10\text{ms(50Hz), sine}$ $t=8.3\text{ms(60Hz), sine}$		
$(di/dt)_{cr}$	$T_{VJ}=T_{VJM}$ $f=50\text{Hz, } t_p=200\mu\text{s}$ $V_D=2/3V_{DRM}$ $I_G=0.5\text{A}$ $diG/dt=0.5\text{A/us}$	150	$\text{A/us}$
	repetitive, $I_T=500\text{A}$ non repetitive, $I_T=500\text{A}$	500	
$(dv/dt)_{cr}$	$T_{VJ}=T_{VJM};$ $R_{GK}=\infty; \text{method 1 (linear voltage rise)}$	1000	$\text{V/us}$
$P_{GM}$	$T_{VJ}=T_{VJM}$ $I_T=I_{TAVM}$ $t_p=30\mu\text{s}$ $t_p=500\mu\text{s}$	120 60	W
$P_{GAV}$		8	W
$V_{RGM}$		10	V
$T_{VJ}$ $T_{VJM}$ $T_{stg}$		-40...+125 125 -40...+125	$^\circ\text{C}$
$V_{ISOL}$	50/60Hz, RMS $I_{ISOL}\leq 1\text{mA}$	3000 3600	$\text{V~}$
$M_d$	Mounting torque ( $M_6$ ) Terminal connection torque ( $M_6$ )	2.25-2.75/20-25 4.5-5.5/40-48	Nm/lb.in.
<b>Weight</b>	Typ.	123	g

# STT130GK\*\*

## Thyristor-Thyristor Modules

Symbol	Test Conditions	Characteristic Values	Unit
$I_{RRM}, I_{DRM}$	$T_{VJ}=T_{VJM}; V_R=V_{RRM}; V_D=V_{DRM}$	10	mA
$V_{TM}$	$I_{TM}=390A; T_{VJ}=25^\circ C$	1.50	V
$V_{TO}$	For power-loss calculations only ( $T_{VJ}=125^\circ C$ )	0.8	V
$r_T$		1.5	$m\Omega$
$V_{GT}$	$V_D=6V; T_{VJ}=25^\circ C$ $T_{VJ}=-40^\circ C$	2.5 2.6	V
$I_{GT}$	$V_D=6V; T_{VJ}=25^\circ C$ $T_{VJ}=-40^\circ C$	150 200	mA
$V_{GD}$	$T_{VJ}=T_{VJM}; V_D=2/3V_{DRM}$	0.2	V
$I_{GD}$		10	mA
$I_L$	$T_{VJ}=25^\circ C; t_p=30\mu s; V_D=6V$ $I_G=0.5A; dI/dt=0.5A/\mu s$	300	mA
$I_H$	$T_{VJ}=25^\circ C; V_D=6V; R_{GK}=\infty$	200	mA
$t_{gd}$	$T_{VJ}=25^\circ C; V_D=1/2V_{DRM}$ $I_G=0.5A; dI/dt=0.5A/\mu s$	2	us
$t_q$	$T_{VJ}=T_{VJM}; I_T=160A; t_p=200\mu s; -di/dt=10A/\mu s$ $V_R=100V; dv/dt=20V/\mu s; V_D=2/3V_{DRM}$	typ. 150	us
$Q_s$	$T_{VJ}=T_{VJM}; I_T, I_F=300A; -di/dt=50A/\mu s$	550	$\mu C$
$I_{RM}$		235	A
$R_{thJC}$	per thyristor/diode; DC current per module	0.23 0.115	K/W
$R_{thJK}$	per thyristor/diode; DC current per module	0.33 0.165	K/W
$ds$	Creeping distance on surface	12.7	mm
$da$	Strike distance through air	9.6	mm
$a$	Maximum allowable acceleration	50	$m/s^2$

### FEATURES

- \* International standard package
- \* DBC baseplate
- \* Glass passivated chips
- \* Isolation voltage 3600 V~
- \* UL file NO.310749
- \* RoHs compliant

### APPLICATIONS

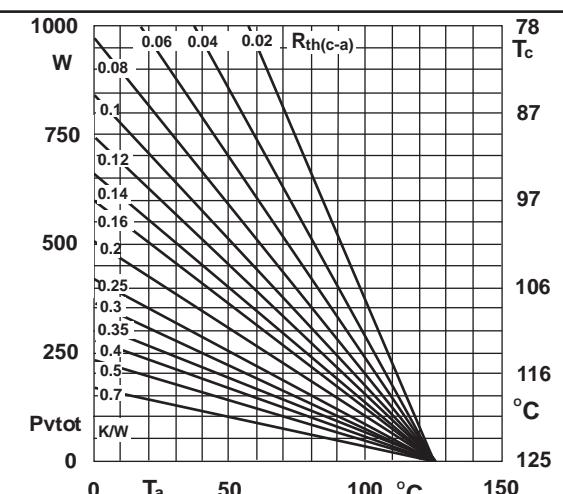
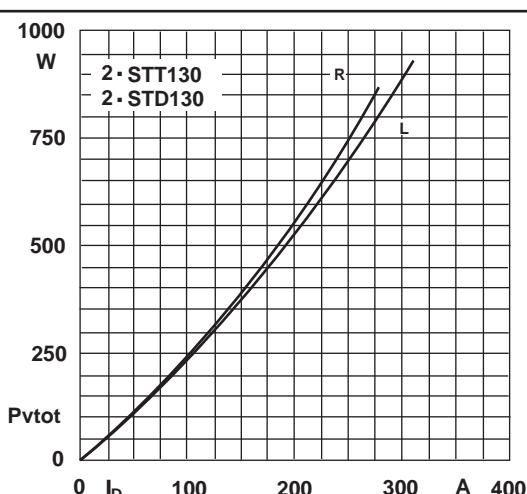
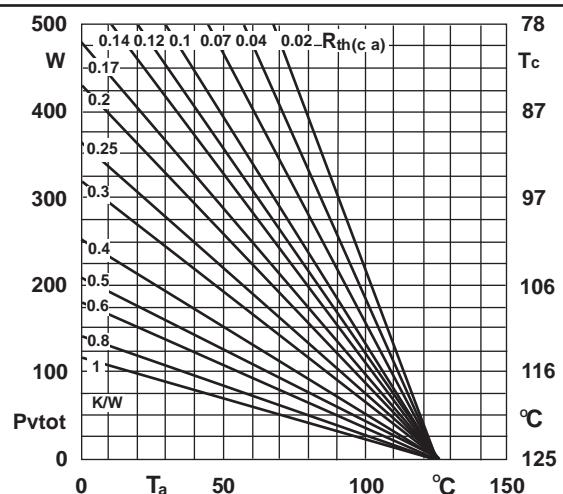
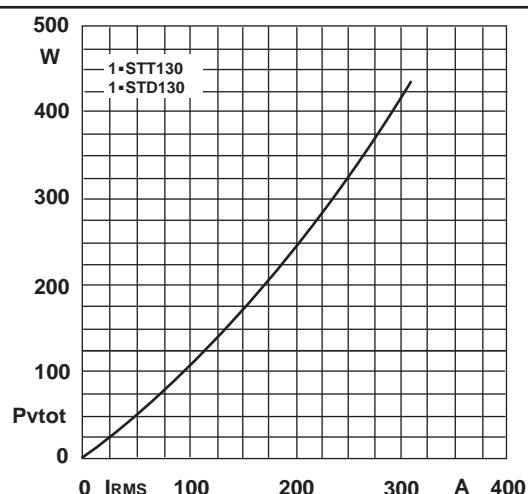
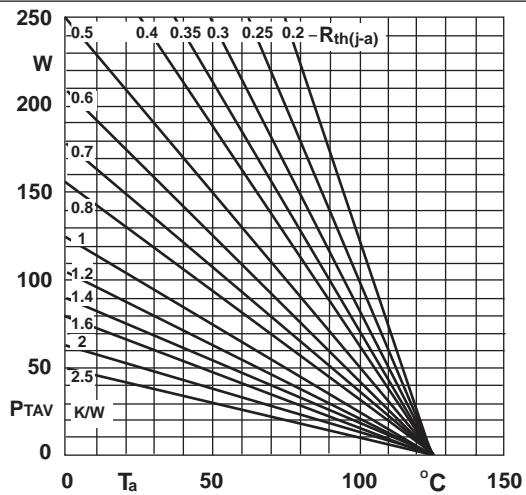
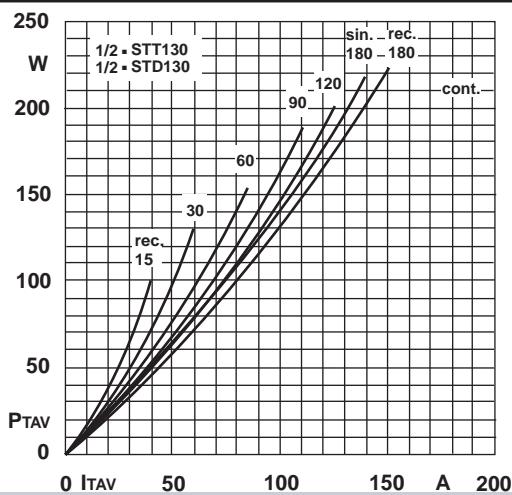
- \* Motor control
- \* Power converter
- \* Heat and temperature control for industrial furnaces and chemical processes
- \* Lighting control
- \* Contactless switches

### ADVANTAGES

- \* Space and weight savings
- \* Simple mounting
- \* Improved temperature and power cycling
- \* Reduced protection circuits

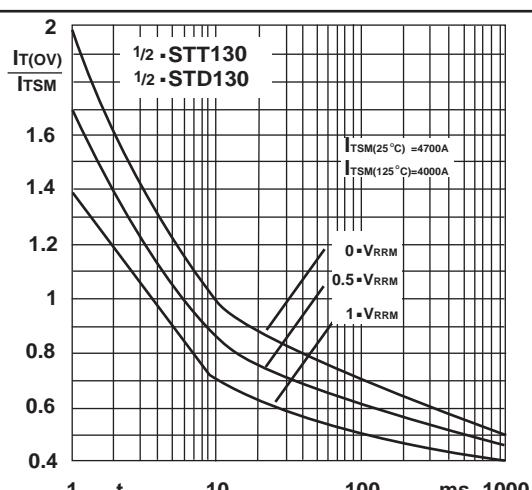
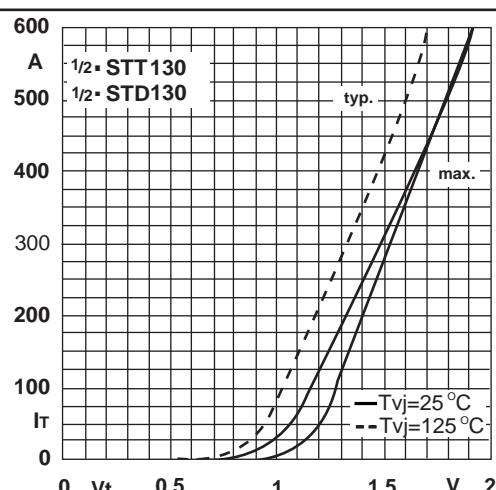
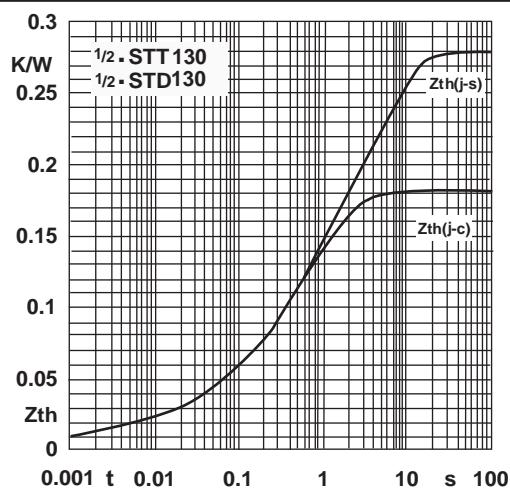
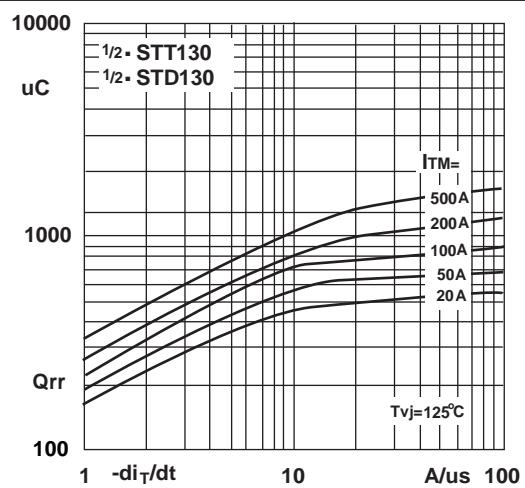
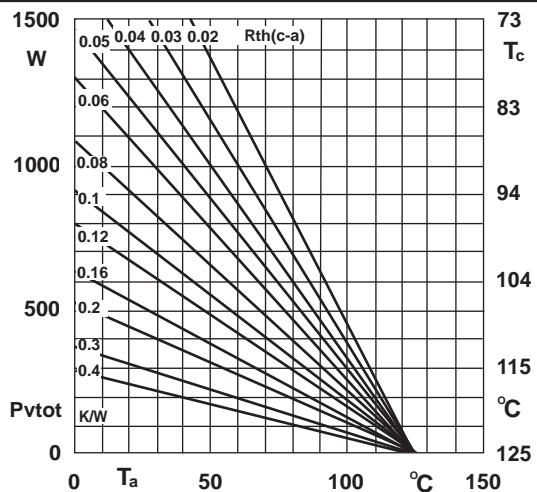
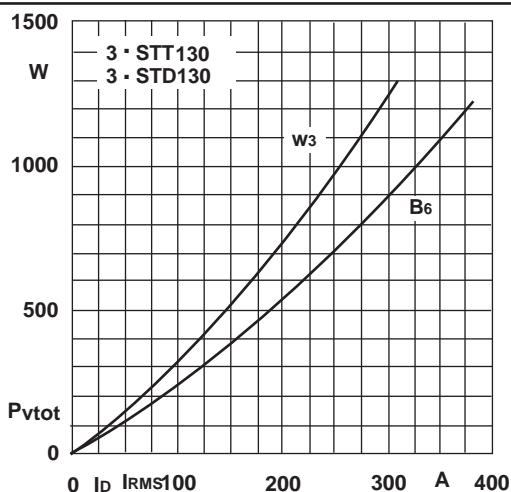
# STT130GK\*\*

## Thyristor-Thyristor Modules



# STT130GK\*\*

## Thyristor-Thyristor Modules



# X-ON Electronics

Largest Supplier of Electrical and Electronic Components

***Click to view similar products for Discrete Semiconductor Modules category:***

***Click to view products by Sirectifier manufacturer:***

Other Similar products are found below :

[M252511FV](#) [DD260N12K-A](#) [DD285N02K](#) [DD380N16A](#) [DD89N1600K-A](#) [APT2X21DC60J](#) [APT58M80J](#) [B522F-2-YEC](#) [MSTC90-16](#)  
[ND104N16K](#) [25.163.0653.1](#) [25.163.2453.0](#) [25.163.4253.0](#) [25.190.2053.0](#) [25.194.3453.0](#) [25.320.4853.1](#) [25.320.5253.1](#) [25.326.3253.1](#)  
[25.326.3553.1](#) [25.330.1653.1](#) [25.330.4753.1](#) [25.330.5253.1](#) [25.334.3253.1](#) [25.334.3353.1](#) [25.350.2053.0](#) [25.352.4753.1](#) [25.522.3253.0](#)  
[T483C](#) [T484C](#) [T485F](#) [T485H](#) [T512F-YEB](#) [T513F](#) [T514F](#) [T554](#) [T612FSE](#) [25.161.3453.0](#) [25.179.2253.0](#) [25.194.3253.0](#) [25.325.1253.1](#)  
[25.326.4253.1](#) [25.330.0953.1](#) [25.332.4353.1](#) [25.350.1653.0](#) [25.350.2453.0](#) [25.352.1453.0](#) [25.352.1653.0](#) [25.352.2453.0](#) [25.352.5453.1](#)  
[25.522.3353.0](#)