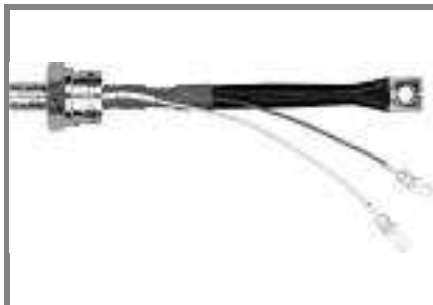


# SKT 130



**Stud Thyristor**

## Line Thyristor

### SKT 130

#### Features

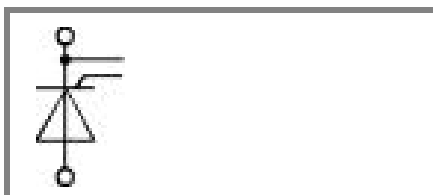
- Hermetic metal case with glass insulator
- Threaded stud ISO M16x1,5
- International standard case

#### Typical Applications\*

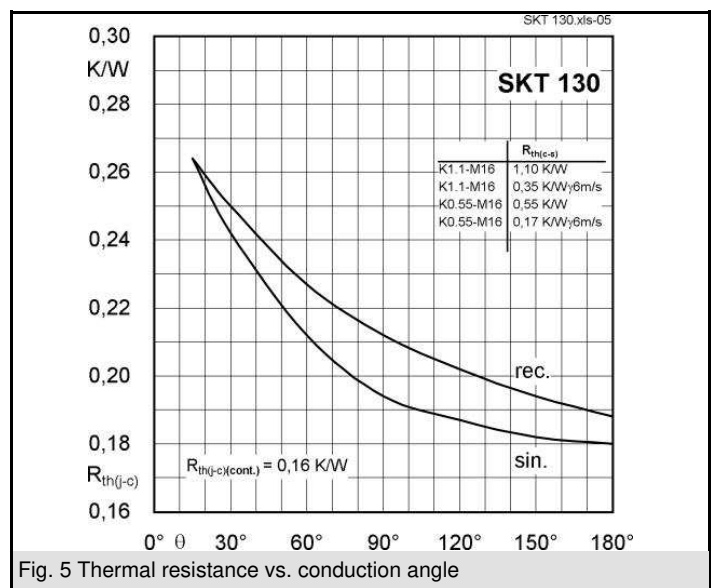
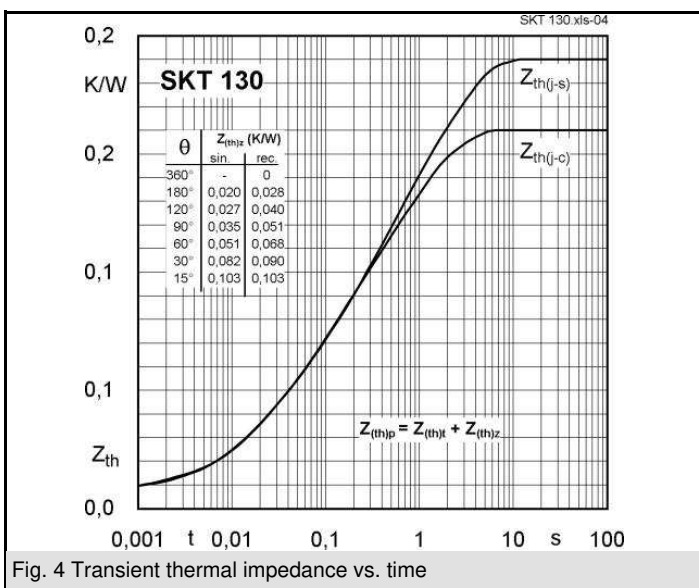
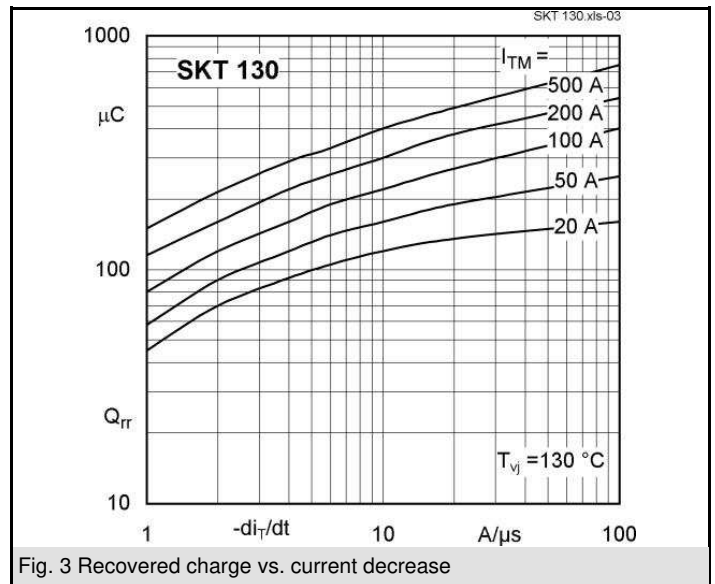
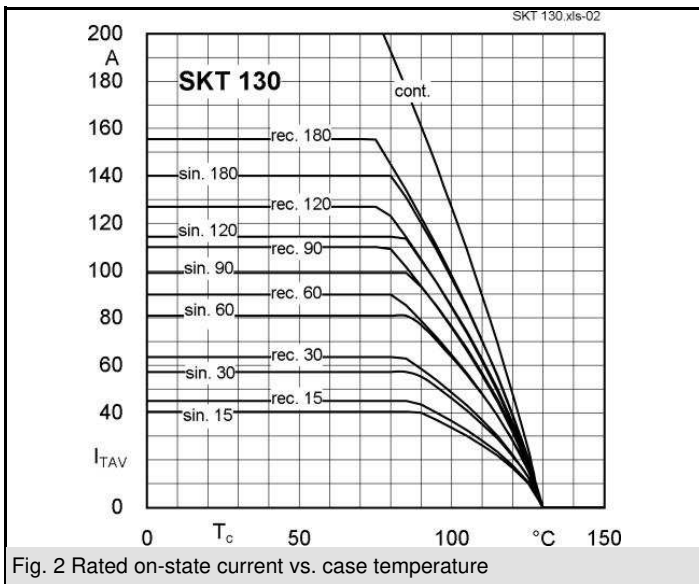
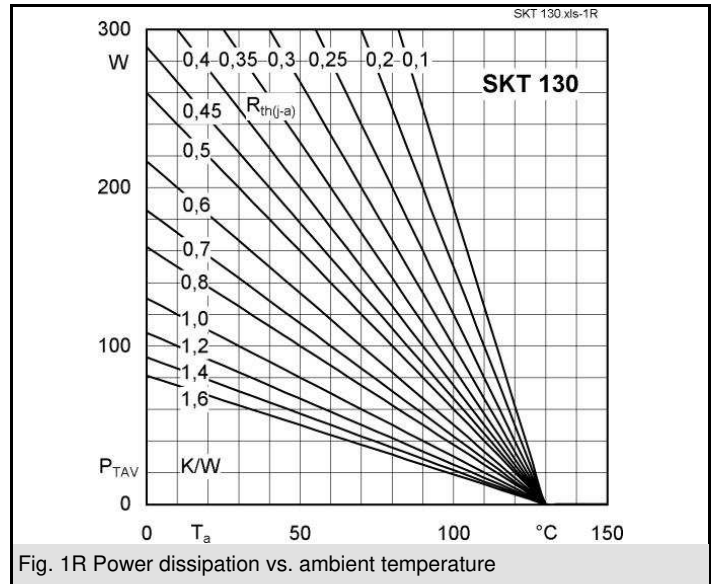
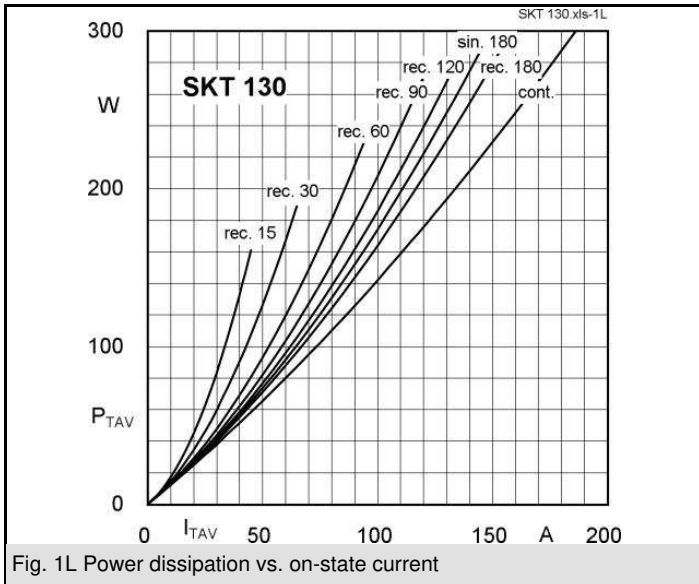
- DC motor control (e. g. for machine tools)
- Controlled rectifiers (e. g. for battery charging)
- AC controllers (e. g. for temperature control)
- Recommended snubber network e. g. for  $V_{VRMS} \leq 400$  V:  
 $R = 33 \Omega / 13$  W,  $C = 0,47 \mu F$

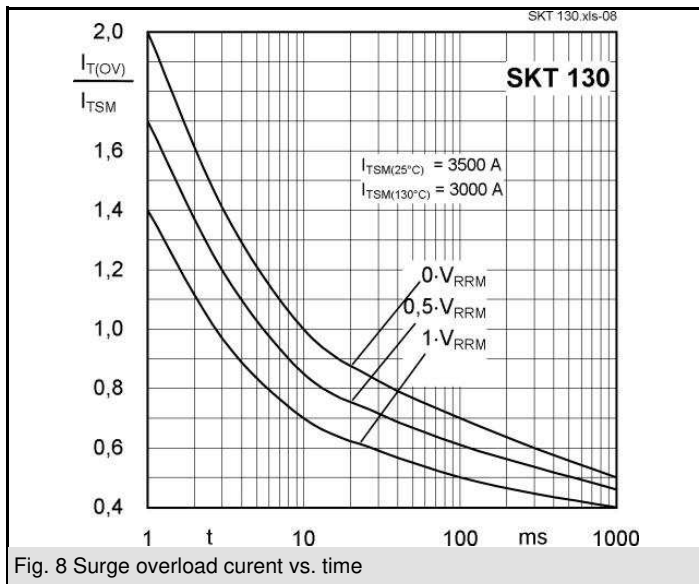
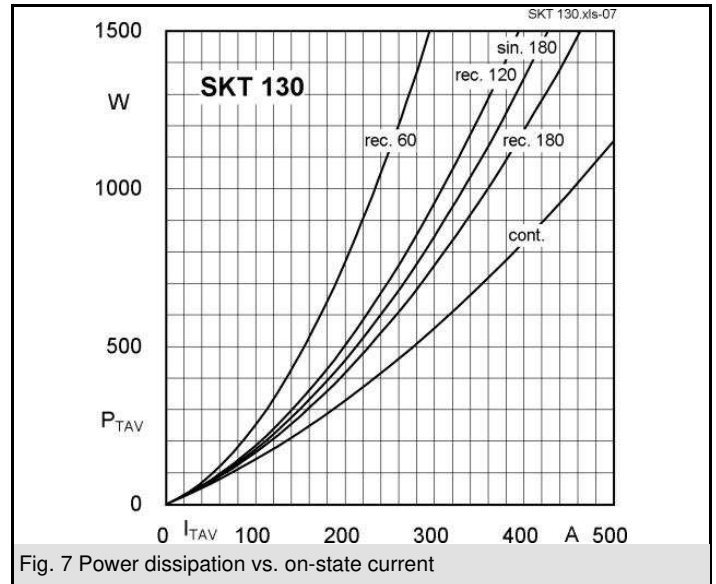
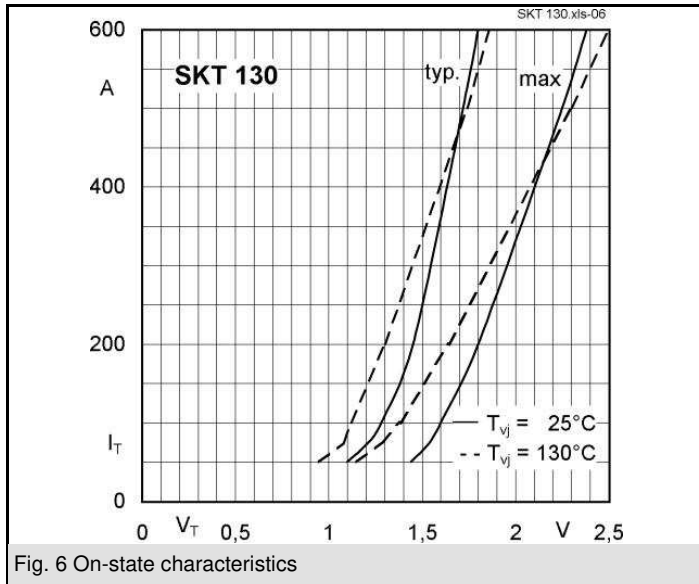
$V_{RSM}$ V	$V_{RRM}, V_{DRM}$ V	$I_{TRMS} = 220$ A (maximum value for continuous operation) $I_{TAV} = 130$ A (sin. 180; $T_c = 85$ °C)	
500	400	SKT 130/04D	
700	600	SKT 130/06D	
900	800	SKT 130/08D	
1300	1200	SKT 130/12E	
1500	1400	SKT 130/14E	
1700	1600	SKT 130/16E	

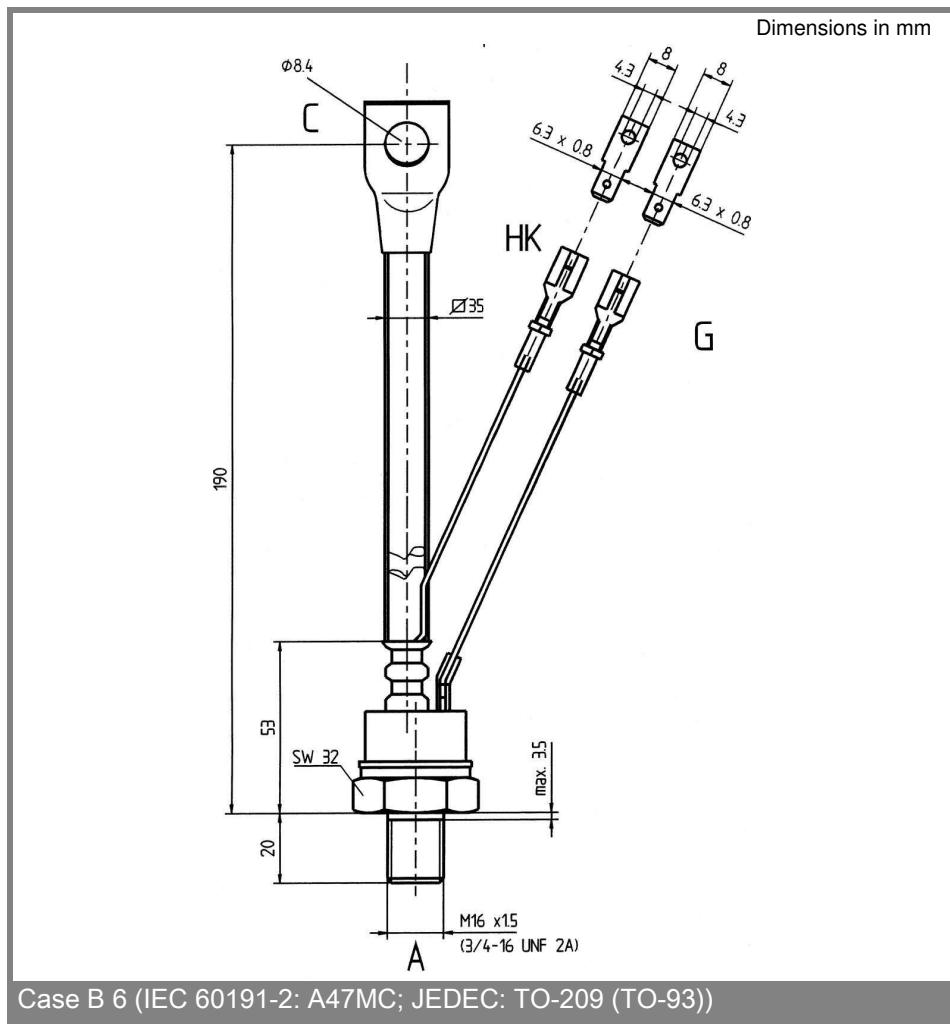
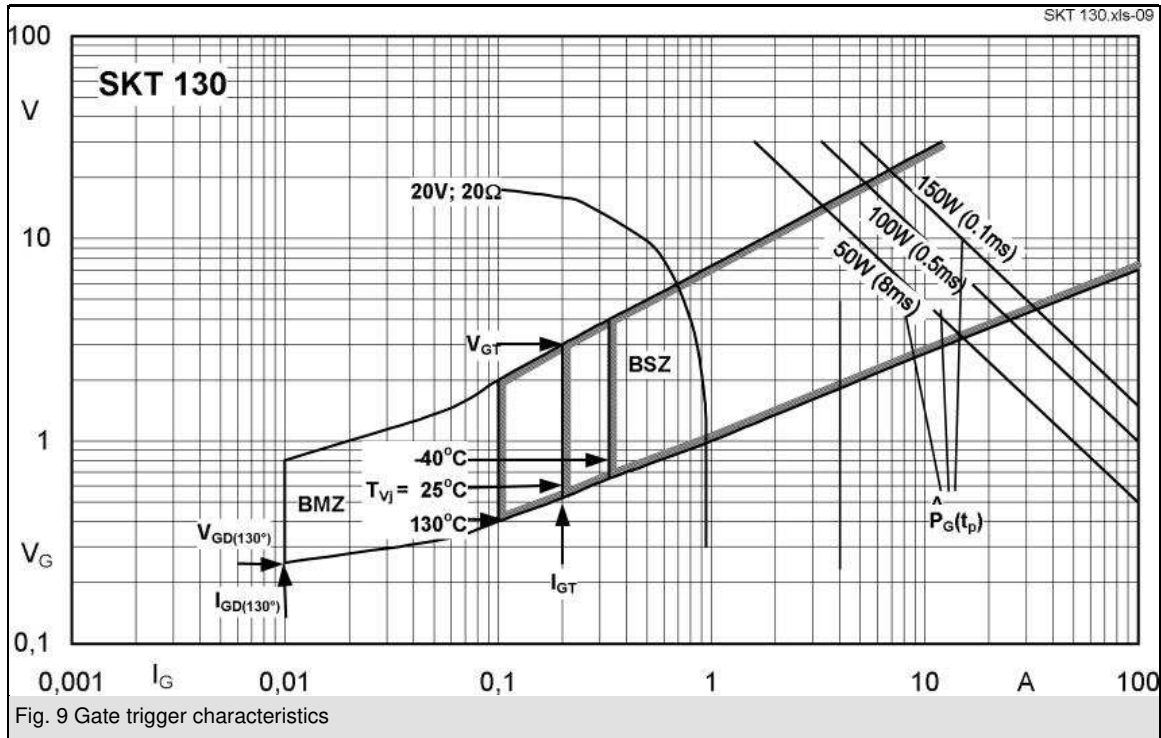
Symbol	Conditions	Values	Units
$I_{TAV}$	sin. 180; $T_c = 100$ (85) °C;	97 (130 )	A
$I_D$	K1,1; $T_a = 45$ °C; B2 / B6	90 / 125	A
	K0,55; $T_a = 45$ °C; B2 / B6	140 / 200	A
$I_{RMS}$	K0,55; $T_a = 45$ °C; W1C	155	A
$I_{TSM}$	$T_{vj} = 25$ °C; 10 ms	3500	A
	$T_{vj} = 130$ °C; 10 ms	3000	A
$i^2t$	$T_{vj} = 25$ °C; 8,35 ... 10 ms	61000	A <sup>2</sup> s
	$T_{vj} = 130$ °C; 8,35 ... 10 ms	45000	A <sup>2</sup> s
$V_T$	$T_{vj} = 25$ °C; $I_T = 500$ A	max. 2,25	V
$V_{T(TO)}$	$T_{vj} = 130$ °C	max. 1,2	V
$r_T$	$T_{vj} = 130$ °C	max. 2,2	mΩ
$I_{DD}, I_{RD}$	$T_{vj} = 130$ °C; $V_{RD} = V_{RRM}; V_{DD} = V_{DRM}$	max. 50	mA
$t_{gd}$	$T_{vj} = 25$ °C; $I_G = 1$ A; $di_G/dt = 1$ A/μs	1	μs
$t_{gr}$	$V_D = 0,67 * V_{DRM}$	2	μs
$(di/dt)_{cr}$	$T_{vj} = 130$ °C	max. 100	A/μs
$(dv/dt)_{cr}$	$T_{vj} = 130$ °C ; SKT ...D / SKT ...E	max. 500 / 1000	V/μs
$t_q$	$T_{vj} = 130$ °C ,	120	μs
$I_H$	$T_{vj} = 25$ °C; typ. / max.	150 / 250	mA
$I_L$	$T_{vj} = 25$ °C; $R_G = 33 \Omega$ ; typ. / max.	300 / 600	mA
$V_{GT}$	$T_{vj} = 25$ °C; d.c.	min. 3	V
$I_{GT}$	$T_{vj} = 25$ °C; d.c.	min. 200	mA
$V_{GD}$	$T_{vj} = 130$ °C; d.c.	max. 0,25	V
$I_{GD}$	$T_{vj} = 130$ °C; d.c.	max. 10	mA
$R_{th(j-c)}$	cont.	0,16	K/W
$R_{th(j-c)}$	sin. 180	0,18	K/W
$R_{th(j-c)}$	rec. 120	0,2	K/W
$R_{th(c-s)}$		0,03	K/W
$T_{vj}$		- 40 ... + 130	°C
$T_{stg}$		- 55 ... + 150	°C
$V_{isol}$		-	V~
$M_s$	to heatsink	30	Nm
$a$		5 * 9,81	m/s <sup>2</sup>
$m$	approx.	250	g
Case		B 6	



**SKT**







\* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON

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