SKT 130



V _{RSM}	V _{RRM} , V _{DRM}	I _{TRMS} = 220 A (maximum value for continuous operation)			
V	V	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			

Values

250

Β6

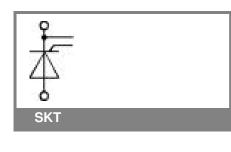
g

Units

Stud Thyristor

	Symbol	Conditions	values	Units
Stud Thyristor	ITAV	sin. 180; T _c = 100 (85) °C;	97 (130)	А
	I I _D	K1,1; T _a = 45 °C; B2 / B6	90 / 125	А
		K0,55; T _a = 45 °C; B2 / B6	140 /200	А
Line Thyristor	I _{RMS}	K0,55; T _a = 45 °C; W1C	155	А
	I _{TSM}	T _{vi} = 25 °C; 10 ms	3500	Α
		T _{vi} = 130 °C; 10 ms	3000	А
SKT 130	i²t	T _{vi} = 25 °C; 8,35 10 ms	61000	A²s
		T _{vj} = 130 °C; 8,35 10 ms	45000	A²s
	V _T	T _{vi} = 25 °C; I _T = 500 A	max. 2,25	V
	V _{T(TO)}	T _{vi} = 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 _{vi} = 25 °C; I _G = 1 A; di _G /dt = 1 A/µs	1	μs
Features	t _{gr}	$V_{\rm D} = 0.67 * V_{\rm DRM}$	2	μs
 Hermetic metal case with glass 	(di/dt) _{cr}	T _{vi} = 130 °C	max. 100	A/µs
insulator	(dv/dt) _{cr}	T _{vi} = 130 °C ; SKTD / SKTE	max. 500 / 1000	V/µs
 Threaded stud ISO M16x1,5 	t _q	T _{vj} = 130 °C ,	120	μs
 International standard case 	I _H	T _{vj} = 25 °C; typ. / max.	150 / 250	mA
Typical Applications*	ΙL	T_{vj} = 25 °C; R_G = 33 Ω ; typ. / max.	300 / 600	mA
	V _{GT}	T _{vi} = 25 °C; d.c.	min. 3	V
DC motor control	I _{GT}	$T_{vj} = 25 ^{\circ}C; d.c.$	min. 200	mA
(e. g. for machine tools)	V _{GD}	T _{vj} = 130 °C; d.c.	max. 0,25	V
Controlled rectifiers	I_{GD}	T _{vj} = 130 °C; d.c.	max. 10	mA
(e. g. for battery charging)	R _{th(j-c)}	cont.	0,16	K/W
AC controllers	R _{th(j-c)}	sin. 180	0,18	K/W
(e. g. for temperature control)	R _{th(j-c)}	rec. 120	0,2	K/W
Recommended snubber network	R _{th(c-s)}		0,03	K/W
e. g. for $V_{VRMS} \le 400 V$:	T _{vj}		- 40 + 130	°C
R = 33 Ω/13 Ŵ, C = 0,47 μF	T _{stg}		- 55 + 150	°C
	V _{isol}		-	V~
	M _s	to heatsink	30	Nm
	а		5 * 9,81	m/s²
			1	

Conditions



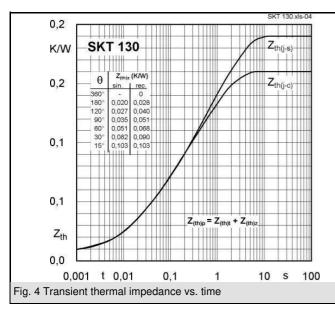
m

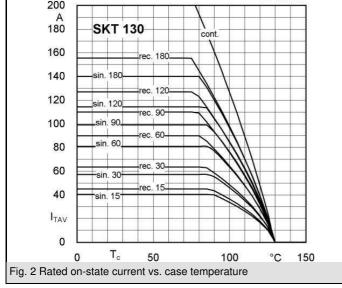
Case

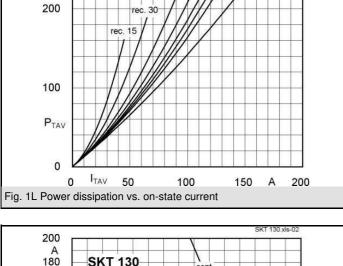
approx.

27-08-2003 IMP

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300

W

SKT 130

SKT 130 xls-1

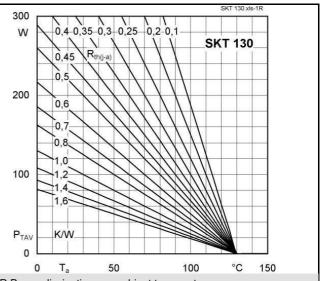
cont

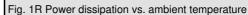
sin. 180

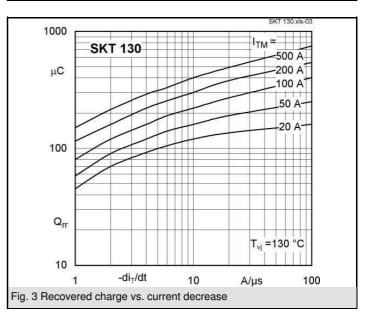
rec. 120 / rec. 180

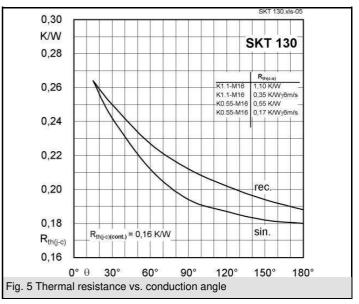
rec. 90-

rec. 60

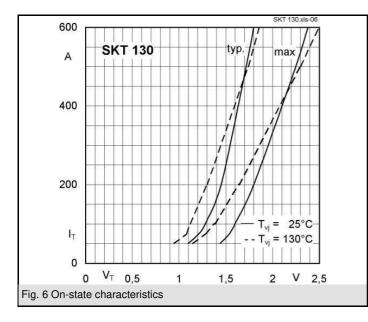


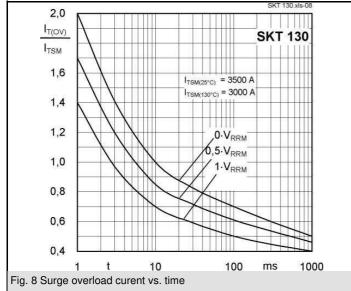


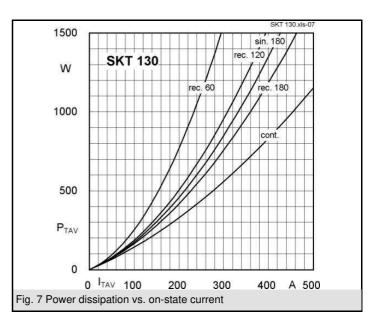


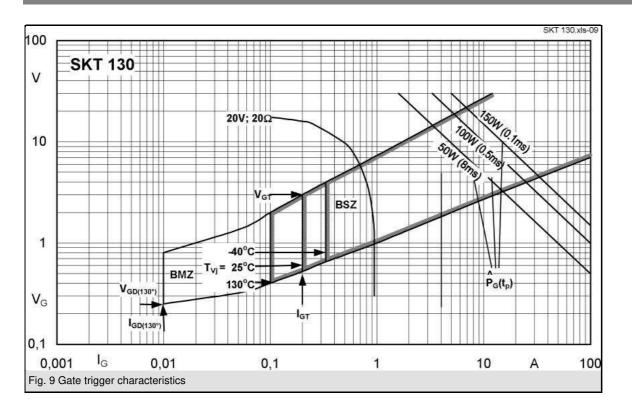


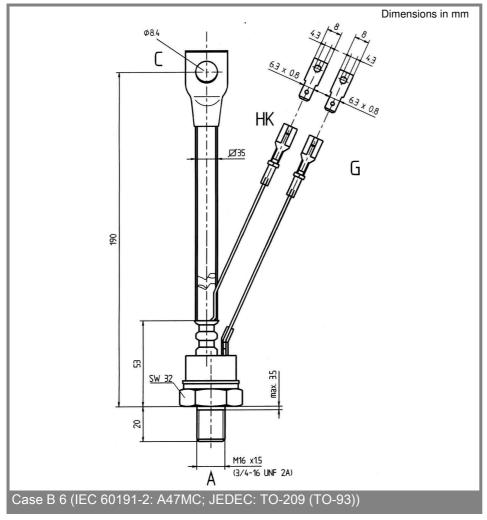
SKT 130











* 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

SKT 130

products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our personal.