

V _{RSM}	V_{RRM}, V_{DRM}	I _{TRMS} = 63 A (maximum value for continuous operation)		
V	V	$I_{TAV} = 40 \text{ A (sin. 180; T}_{c} = 80 ^{\circ}\text{C})$		
500	400	SKT 40/04D		
700	600	SKT 40/06D		
900	800	SKT 40/08D		
1300	1200	SKT 40/12E		
1500	1400	SKT 40/14E		
1700	1600	SKT 40/16E		
1900	1800	SKT 40/18E		

Stud Thyristor

Line Thyristor

SKT 40

Features

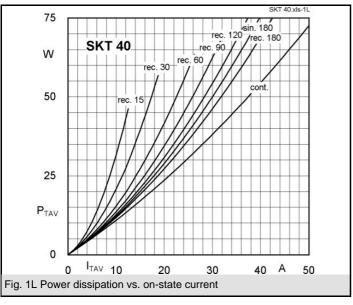
- Hermetic metal case with glass insulator
- Threaded stud ISO M8
- International standard case

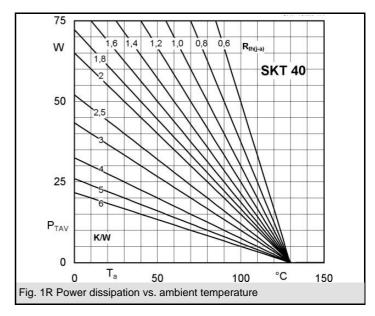
Typical Applications*

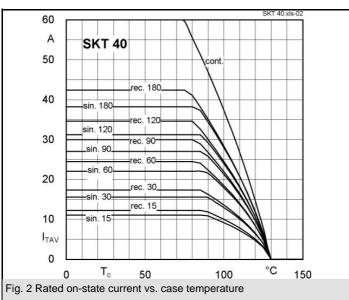
- DC motor control (e. g. for machines tool)
- Controlled rectifiers(e. g. for battery charging)
- AC controllers(e. g. for temperature control)
- Recommended snubber network e. g. for $V_{VRMS} \le 400 \text{ V}$: R = 68 $\Omega/11 \text{ W}$, C = 0,22 μF

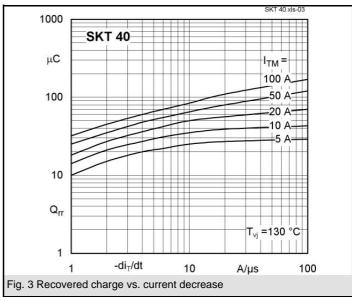
Symbol	Conditions	Values	Units
I _{TAV}	sin. 180; T _c = 100 (85) °C;	28 (37)	Α
I _D	K5; T _a = 45 °C; B2 / B6	24 / 33	Α
	K3; T _a = 45 °C; B2 / B6	34 /48	Α
I _{RMS}	K3; T _a = 45 °C; W1C	38	Α
I _{TSM}	T _{vi} = 25 °C; 10 ms	700	Α
	T _{vi} = 130 °C; 10 ms	600	Α
i²t	T _{vj} = 25 °C; 8,35 10 ms	2500	A²s
	T _{vj} = 130 °C; 8,35 10 ms	1800	A²s
V_{T}	T _{vi} = 25 °C; I _T = 120 A	max. 1,95	V
$V_{T(TO)}$	T _{vi} = 130 °C	max. 1	V
r _T	$T_{vj} = 130 ^{\circ}C$	max. 9	mΩ
I_{DD} ; I_{RD}	T_{vj} = 130 °C, V_{RD} = V_{RRM} , V_{DD} = V_{DRM}	max. 8	mA
t _{gd}	$T_{vj} = 25 \text{ °C; } I_G = 1 \text{ A; } di_G/dt = 1 \text{ A/}\mu\text{s}$	1	μs
t_{gr}	$V_{D} = 0.67 * V_{DRM}$	1,5	μs
(di/dt) _{cr}	T _{vj} = 130 °C	max. 50	A/µs
(dv/dt) _{cr}	T _{vj} = 130 °C ; SKTD / SKTE	max. 500 / 1000	V/µs
t _q	$T_{vj} = 130 ^{\circ}\text{C}$	100	μs
I _H	T_{vj} = 25 °C; typ. / max.	100 / 200	mA
I_{L}	T_{vj} = 25 °C; R_G = 33 Ω ; typ. / max.	250 / 400	mA
V _{GT}	T _{vj} = 25 °C; d.c.	min. 3	V
I_{GT}	$T_{vj} = 25 ^{\circ}\text{C}; \text{d.c.}$	min. 150	mA
V_{GD}	$T_{vj} = 130 ^{\circ}\text{C}; \text{d.c.}$	max. 0,25	V
I_{GD}	$T_{vj} = 130 ^{\circ}\text{C}; \text{d.c.}$	max. 5	mA
R _{th(j-c)}	cont.	0,6	K/W
$R_{th(j-c)}$	sin. 180	0,66	K/W
$R_{th(j-c)}$	rec. 120	0,7	K/W
$R_{th(c-s)}$		0,2	K/W
T_{vj}		- 40 + 130	°C
T_{stg}		- 55 + 150	°C
V _{isol}		-	V~
M_s	to heatsink	4 (UNF: 2,5)	Nm
а		5 * 9,81	m/s²
m	approx.	22	g
Case		В 3	

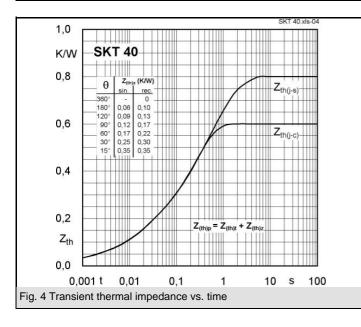


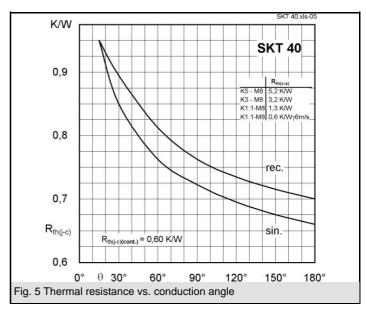




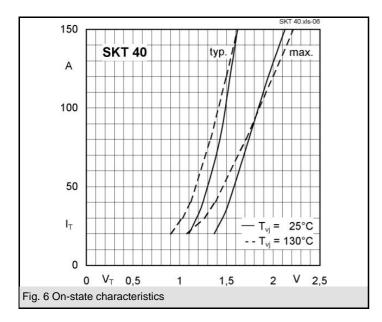


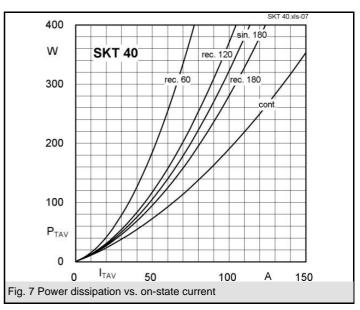


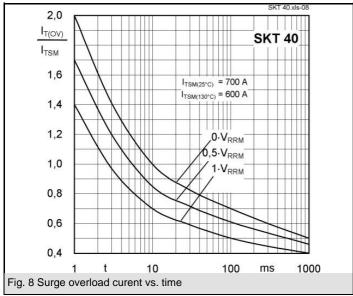


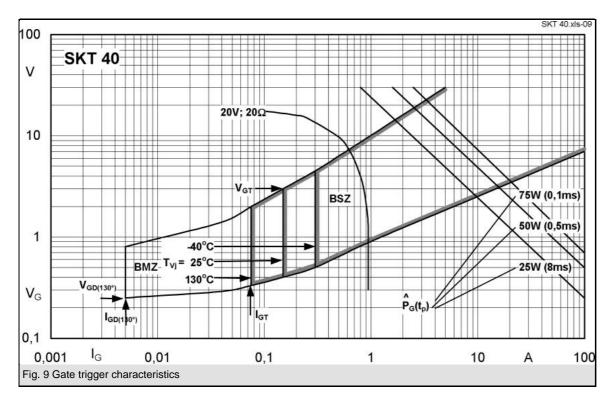


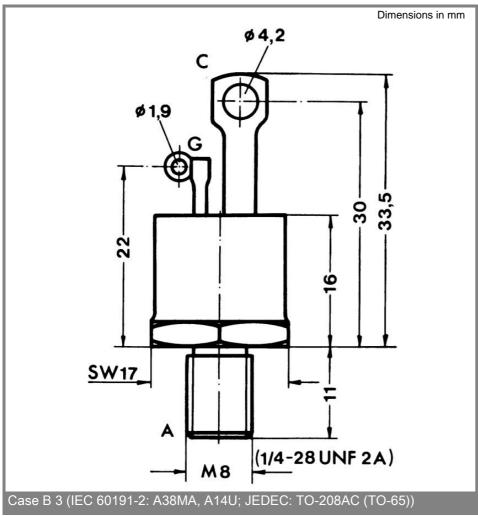
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^{*} The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON

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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.

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