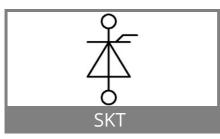
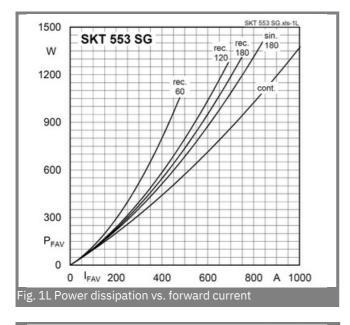


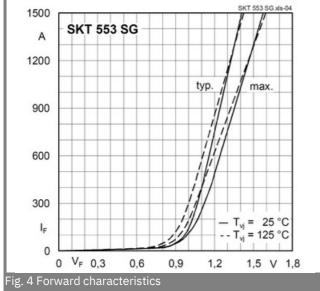
VRSM	VRRM, Y _{SRM}	ITRM51200 A (maximum value for continuous operation
V	V	ITAV = 554 A (sin. 180 DSC; T = 85ୁ °C)
500	400	SKT 553/04D SG
900	800	SKT 553/08E SG
1300	1200	SKT 553/12E SG
1500	1400	SKT 553/14E SG
1700	1600	SKT 553/16E SG
1900	1800	SKT 553/18E SG

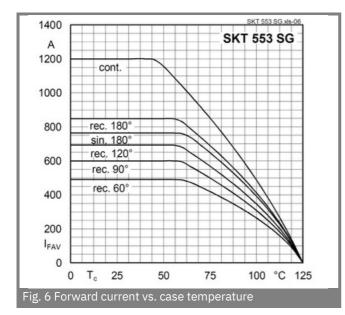
Capsule Thyristor

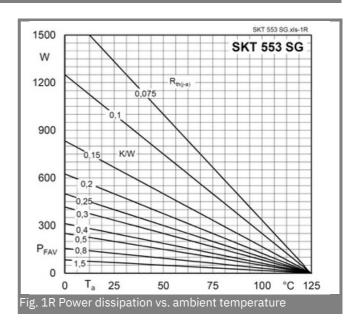
Thyristors	Symbol	Condition	Values	Units
ITAV SKT 553 SG		sin. 180 ; TC = 100 (85) °C	392 (554)	A
		2 x P8/180; Ta = 45 °C; B2/B6 2 x P8/180F; Ta = 35 °C; B2/B6	390 / 560 980 / 1340	A A
IRMS		2 x P8/180; Ta = 45 °C; W1C	435	A
Features ITSM		Tvj = 25° C ; 10 ms	9000	А
Hermetic metal case with epoxy		$Tv_j = 125^{\circ} C$; 10 ms	8000	А
insulator i2t □ Capsule package for double		$Tv_j = 25^{\circ} C$; 8,310 ms	405000	A2s
sided cooling		Tvj = 125° C ; 8,310 ms	320000	A2s
Off-state and reverse voltages VT		Tvj = 25° C, TT = 1500 A	max. 1,65	V
up to 1800 V VT(TO)		Tvj = 125° C	max. 0,92	V
Amplifying gate rT IDD; IRD		$Tvj = 125^{\circ} C$	max. 0,45	m□
Typical Applications * tgd		$Tvj = 125^{\circ}$ C; VRD = VRRM; VRD = $_{RVM}$	max. 60 1	mA
DC motor control tgr		 Tvj = 25° C; iG = 1A; diG/dt = 1 A/µs = VD = 0,67 * VDRM	1	μs μs
Controlled and half-controlled (di/		Tvj = 125°C	- max. 125	A/µs
rectifiers	(dV/dt)cr	$Tv_j = 125 °C$; D (E)	500 (1000)	V/μs
 AC controllers tq Recommended snubber IH 		Tvj = 125°C	50 250	μs
network IL		Tvj = 25°C; typ. / max	150 / 500	mA
e.g. for Vrms ≤ 400 V: VGT		Tvj = 25°C; RG = 33 Ω; typ. / max	500 / 2000 min. 3	mA
RC= 33 Ω/32 W, C = 1µF IGT VGD		Tvj = 25°C; d.c. Tvj = 25°C; d.c.	min. 250	V mA
IGD		Tvj = 125°C; d.c.	max. 0,25	V
Rth(i-c)		Tvj = 125°C; d.c.	max. 10	mA
Rth(j-c)		cont.; DSC	0,045	K/W
Rth(j-c)		sin. 180; DSC / SSC rec. 120; DSC / SSC	0,047 / 0,10	K/W
Rth(c-s) Tvj		DSC / SSC	0,052 / 0,11 0,011 / 0,022	K/W K/W
Tstg			-40+125	°C
F			-40+125	°C
m		Mounting force (SI units)	5,2 8	kN
Case		approx.	85	g
			B11b	

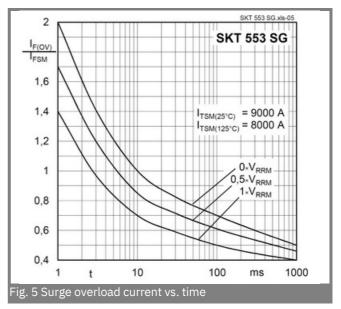


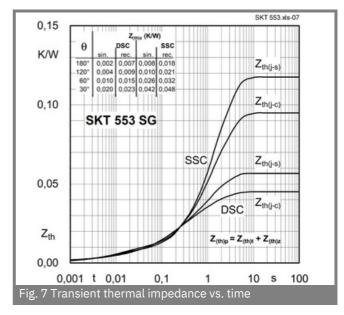






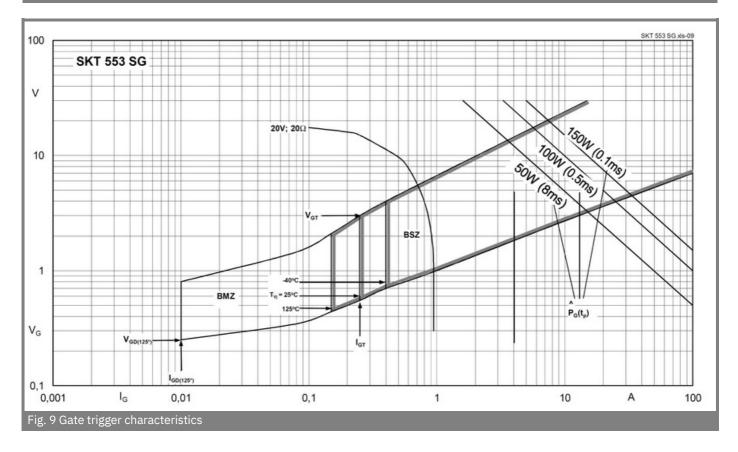


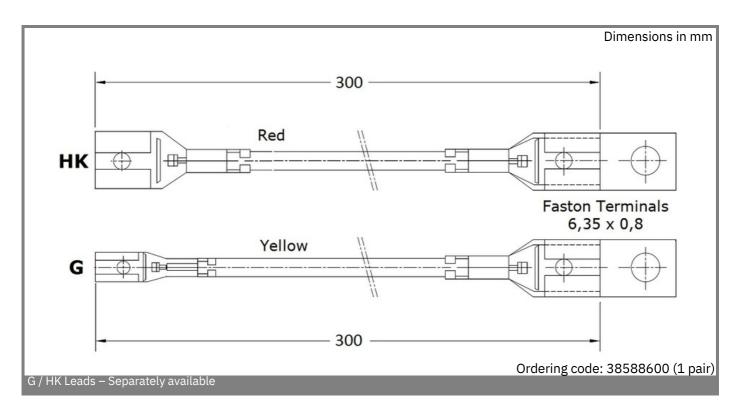




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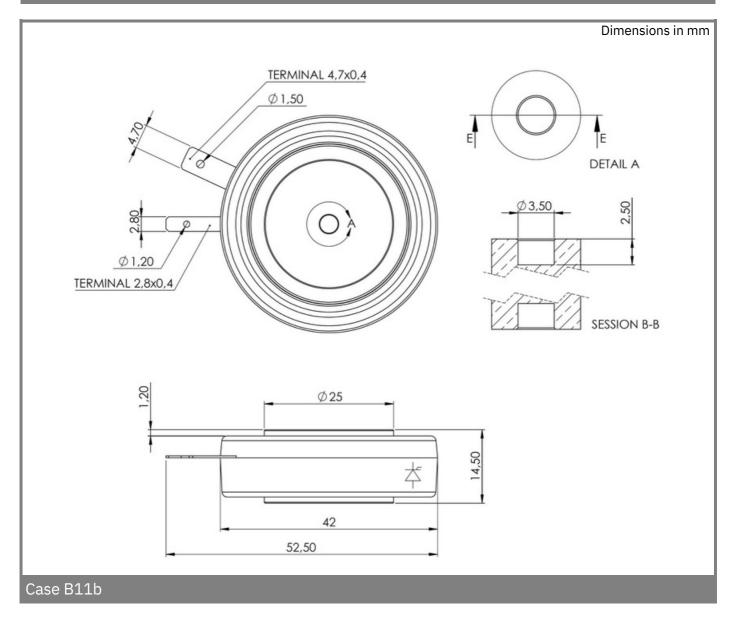
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