

SKT 553 SG



Capsule Thyristor

VRSM V	VRRM, V _{DRM} V	ITRMS 1200 A (maximum value for continuous operation) ITAV = 554 A (sin. 180 DSC; T = 85 °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

Thyristors

ITAV
SKT 553 SG

IRMS

Features ITSM

- Hermetic metal case with epoxy insulator i2t
- Capsule package for double sided cooling
- Off-state and reverse voltages VT up to 1800 V VT(TO)
- Amplifying gate rT
- IDD; IRD

Typical Applications * tgd

- DC motor control tgr
- Controlled and half-controlled (di/dt)cr rectifiers (dV/dt)cr
- AC controllers tq
- Recommended snubber IH network IL
e.g. for Vrms ≤ 400 V: VGT
RC= 33 Ω/32 W, C = 1 μF IGT

VGD

IGD

Rth(j-c)

Rth(j-c)

Rth(j-c)

Rth(c-s)

Tvj

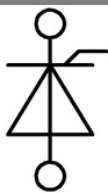
Tstg

F

m

Case

Symbol	Condition	Values	Units
	sin. 180 ; TC = 100 (85) °C	392 (554)	A
	2 x P8/180; Ta = 45 °C; B2/B6	390 / 560	A
	2 x P8/180F; Ta = 35 °C; B2/B6	980 / 1340	A
	2 x P8/180; Ta = 45 °C; W1C	435	A
	Tvj = 25° C ; 10 ms	9000	A
	Tvj = 125° C ; 10 ms	8000	A
	Tvj = 25° C ; 8,3...10 ms	405000	A2s
	Tvj = 125° C ; 8,3...10 ms	320000	A2s
	Tvj = 25° C, II = 1500 A	max. 1,65	V
	Tvj = 125° C	max. 0,92	V
	Tvj = 125° C	max. 0,45	m□
	Tvj = 125° C; VRD = VRRM; VRD = V _{RRM}	max. 60	mA
	Tvj = 25° C; iG = 1A; diG/dt = 1 A/μs	1	μs
	VD = 0,67 * VDRM	1	μs
	Tvj = 125° C	max. 125	A/μs
	Tvj = 125° C; D (E)	500 (1000)	V/μs
	Tvj = 125° C	50 ... 250	μs
	Tvj = 25° C; typ. / max	150 / 500	mA
	Tvj = 25° C; RG = 33 Ω; typ. / max	500 / 2000	mA
	Tvj = 25° C; d.c.	min. 3	V
	Tvj = 25° C; d.c.	min. 250	mA
	Tvj = 125° C; d.c.	max. 0,25	V
	Tvj = 125° C; d.c.	max. 10	mA
	cont., DSC	0,045	K/W
	sin. 180; DSC / SSC	0,047 / 0,10	K/W
	rec. 120; DSC / SSC	0,052 / 0,11	K/W
	DSC / SSC	0,011 / 0,022	K/W
		-40...+125	°C
		-40...+125	°C
	Mounting force (SI units)	5,2 ... 8	kN
	approx.	85	g
		B11b	



SKT

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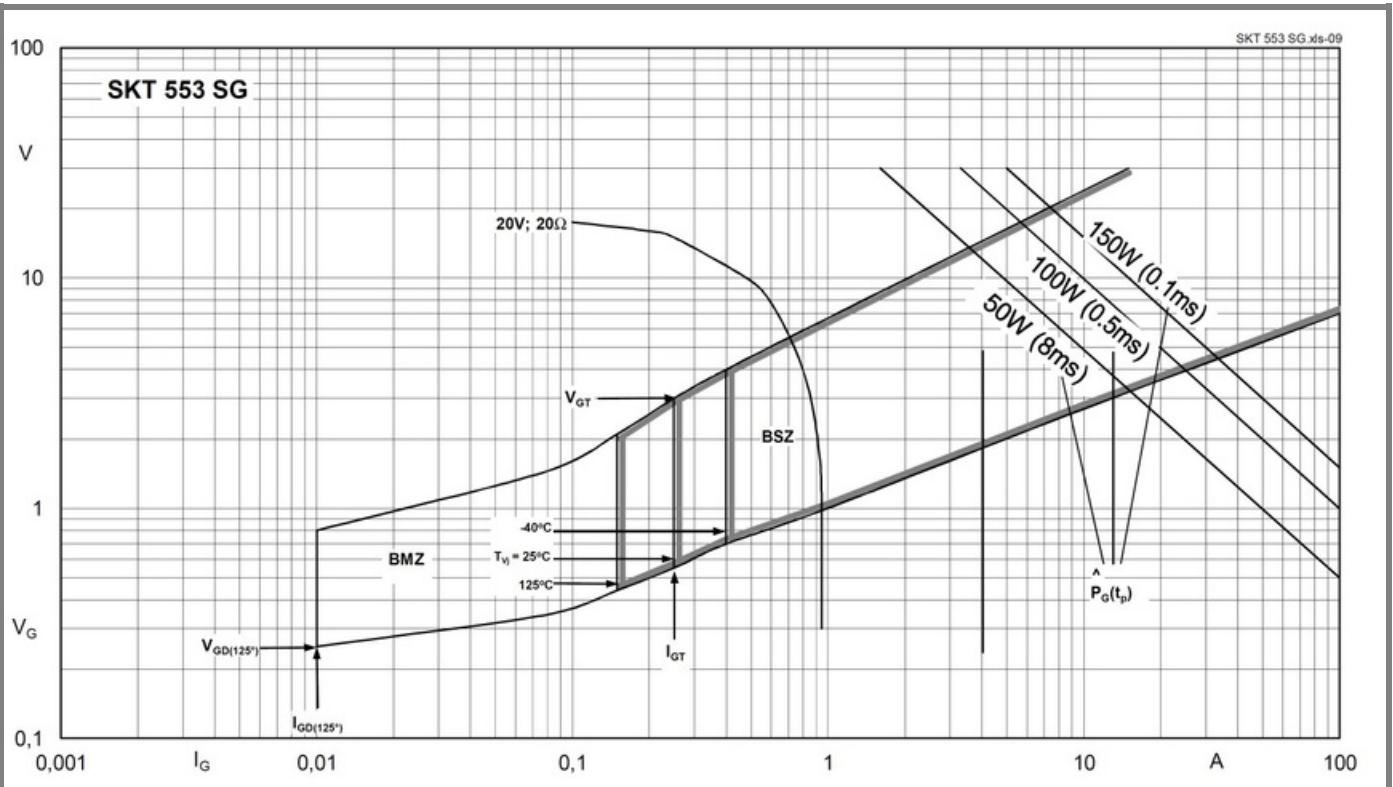
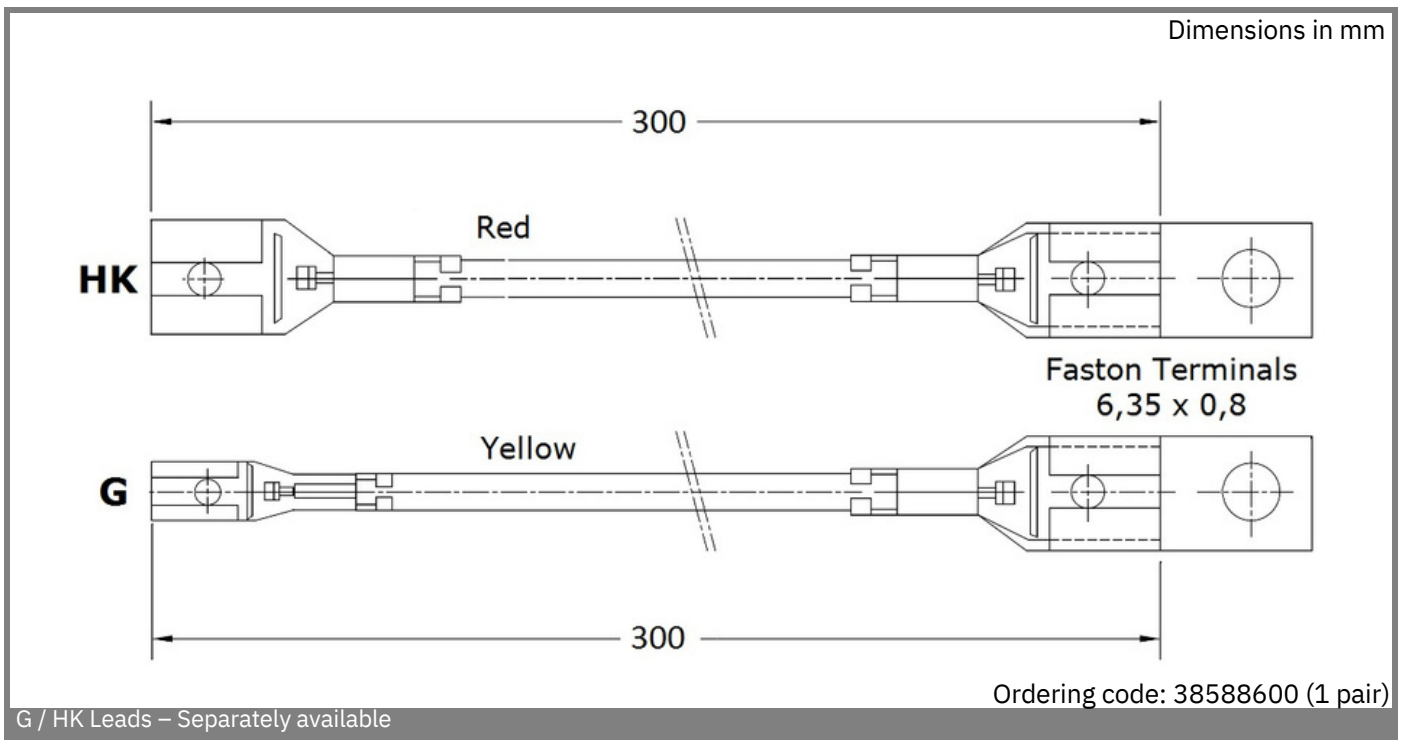
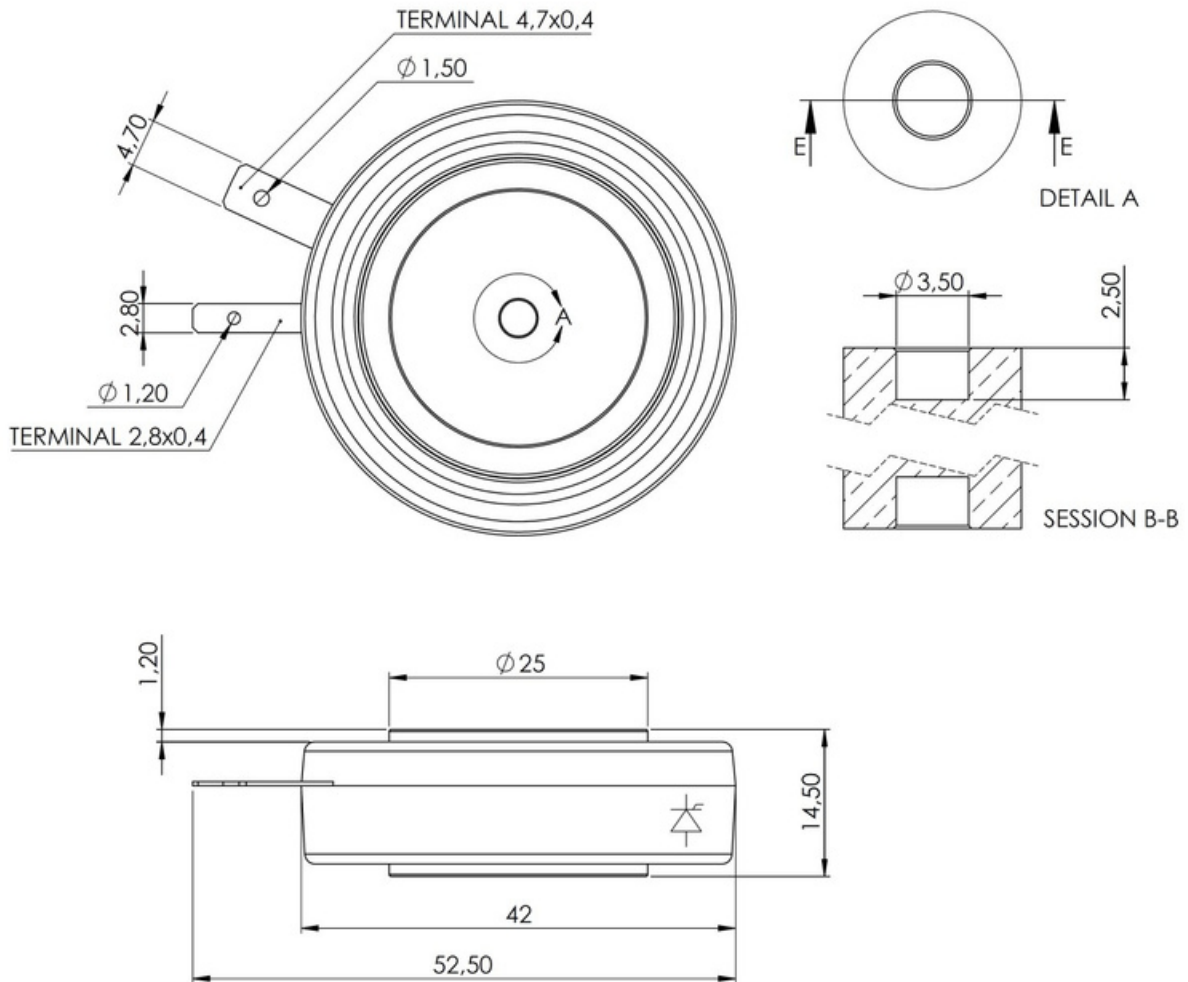


Fig. 9 Gate trigger characteristics



Dimensions in mm



Case B11b

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