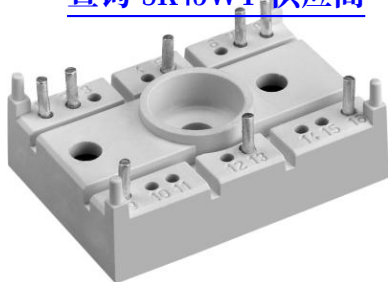


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SEMITOP® 2

Antiparallel Thyristor Module

SK 45 WT

Preliminary Data

Features

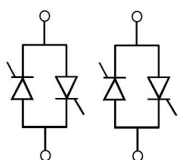
- Compact Design
- One screw mounting
- Heat transfer and isolation through direct copper bonded aluminium oxide ceramic (DBC)
- Glass passivated thyristor chips
- Up to 1600V reverse voltage
- UL recognized, file no. E 63 532

Typical Applications

- Soft starters
- Light control (studios, theaters...)
- Temperature control

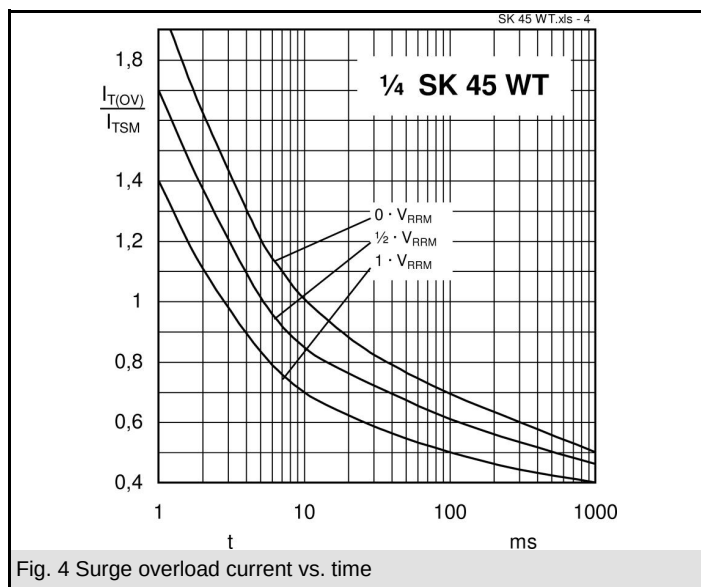
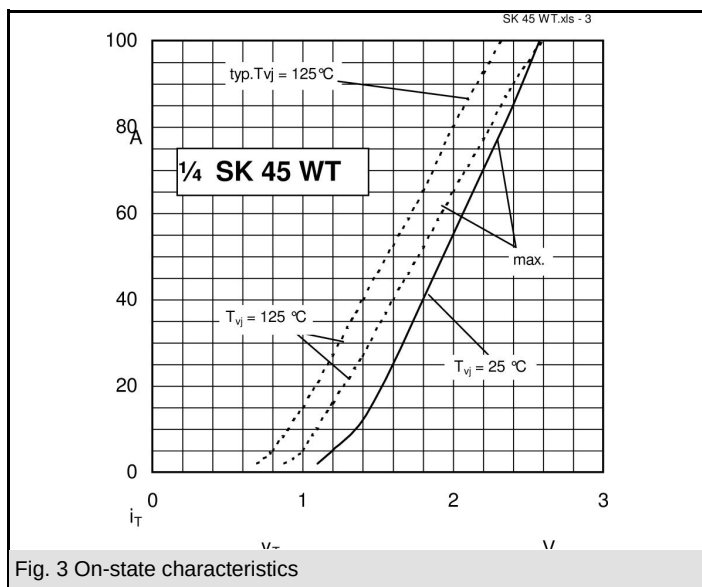
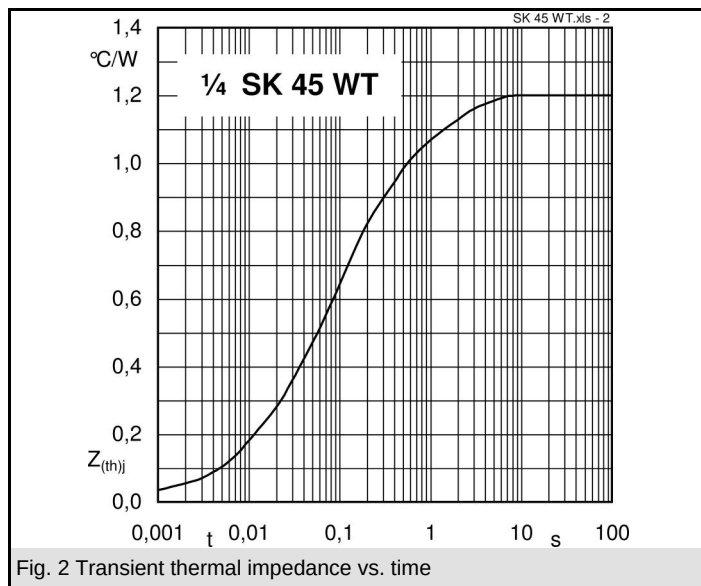
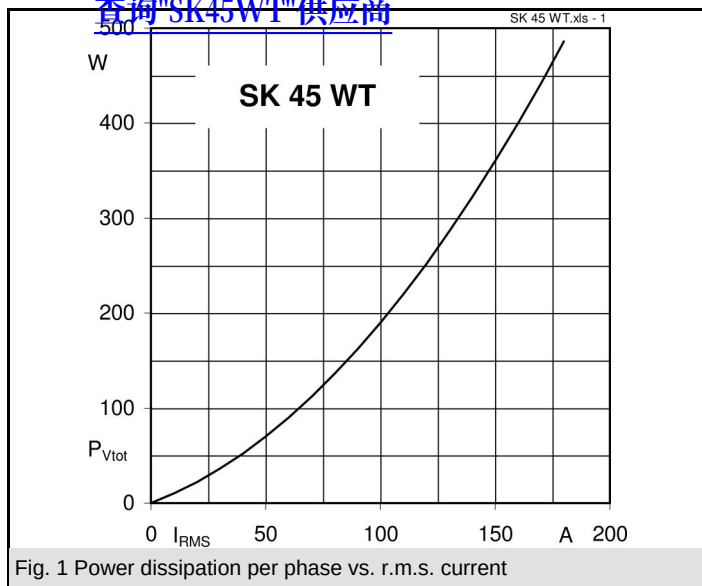
V_{RSM} V	V_{RRM}, V_{DRM} V	$I_{RMS} = 47 \text{ A}$ (full conduction) ($T_s = 85^\circ\text{C}$)
900	800	SK 45 WT 08
1300	1200	SK 45 WT 12
1700	1600	SK 45 WT 16

Symbol	Conditions	Values	Units
I_{RMS}	W1C ; sin. 180° ; $T_s = 100^\circ\text{C}$	33	A
	W1C ; sin. 180° ; $T_s = 85^\circ\text{C}$	47	A
I_{TSM}	$T_{vj} = 25^\circ\text{C}$; 10 ms	450	A
	$T_{vj} = 125^\circ\text{C}$; 10 ms	380	A
i^2t	$T_{vj} = 25^\circ\text{C}$; 8,3...10 ms	1000	A ² s
	$T_{vj} = 125^\circ\text{C}$; 8,3...10 ms	720	A ² s
V_T	$T_{vj} = 25^\circ\text{C}$, $I_T = 75 \text{ A}$	max. 1,9	V
$V_{T(TO)}$	$T_{vj} = 125^\circ\text{C}$	max. 1	V
r_T	$T_{vj} = 125^\circ\text{C}$	max. 10	mΩ
I_{DD}, I_{RD}	$T_{vj} = 25^\circ\text{C}$, $V_{RD} = V_{RRM}$	max. 0,5	mA
	$T_{vj} = 125^\circ\text{C}$, $V_{RD} = V_{RRM}$	max. 10	mA
t_{gd}	$T_{vj} = 25^\circ\text{C}$, $I_G = 1 \text{ A}$; $di_G/dt = 1 \text{ A}/\mu\text{s}$	1	μs
t_{gr}	$V_D = 0,67 \cdot V_{DRM}$	2	μs
$(dv/dt)_{cr}$	$T_{vj} = 125^\circ\text{C}$	1000	V/μs
$(di/dt)_{cr}$	$T_{vj} = 125^\circ\text{C}$; $f = 50...60 \text{ Hz}$	50	A/μs
t_q	$T_{vj} = 125^\circ\text{C}$; typ.	120	μs
I_H	$T_{vj} = 25^\circ\text{C}$; typ. / max.	80 / 150	mA
I_L	$T_{vj} = 25^\circ\text{C}$; $R_G = 33 \Omega$; typ. / max.	150 / 300	mA
V_{GT}	$T_{vj} = 25^\circ\text{C}$; d.c.	min. 3	V
I_{GT}	$T_{vj} = 25^\circ\text{C}$; d.c.	min. 100	mA
V_{GD}	$T_{vj} = 125^\circ\text{C}$; d.c.	max. 0,25	V
I_{GD}	$T_{vj} = 125^\circ\text{C}$; d.c.	max. 3	mA
$R_{th(j-s)}$	cont. per thyristor	1,2	K/W
	sin 180° per thyristor	1,24	K/W
$R_{th(j-s)}$	cont. per W1C	0,6	K/W
	sin 180° per W1C	0,62	K/W
T_{vj}		-40 ... +125	°C
T_{stg}		-40 ... +125	°C
T_{solder}	terminals, 10s	260	°C
V_{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3000 / 2500	V~
M_s	Mounting torque to heatsink	1,5	Nm
M_t			Nm
a			m/s ²
m		13	g
Case	SEMITOP® 2	T 37	



WT

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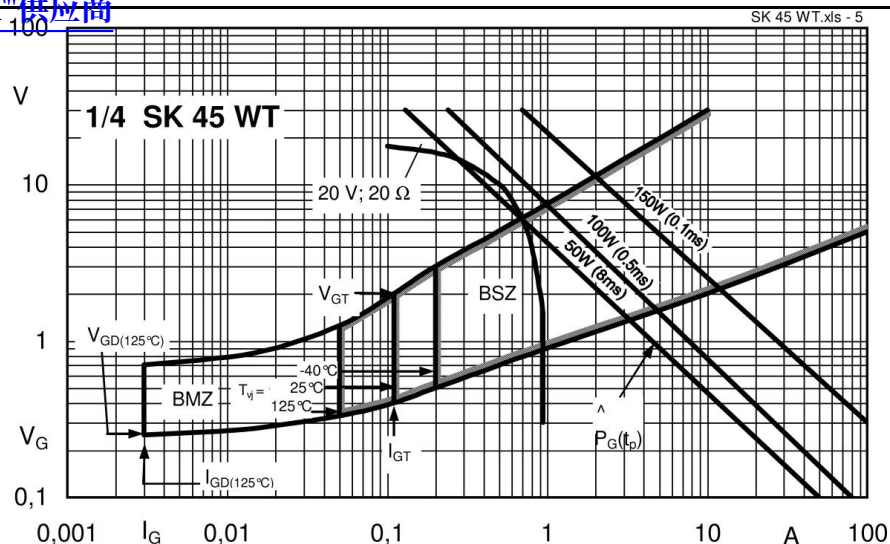
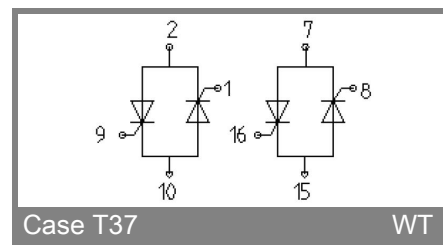
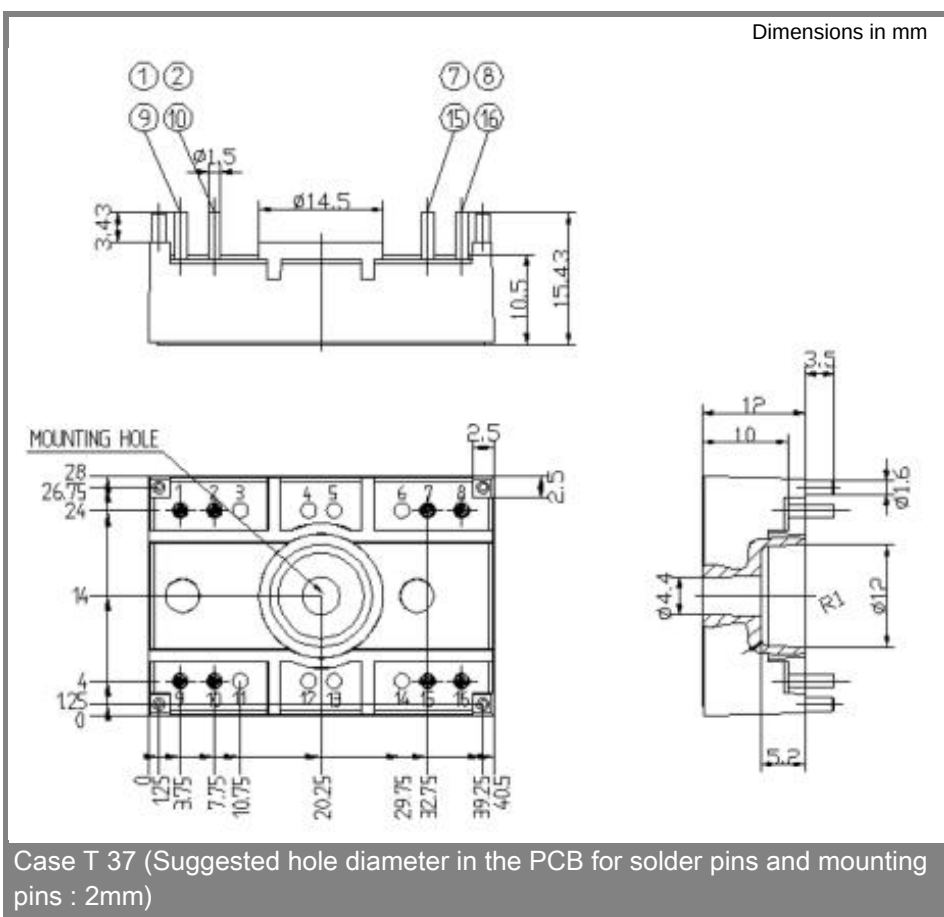


Fig. 5 Gate trigger characteristics



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