

SEMITOP® 2

Antiparallel Thyristor Module

SK 45 WT

Preliminary Data

Features

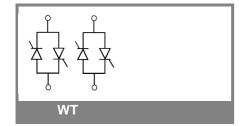
- Compact Design
- · One screw mounting
- Heat transfer and isolation through direct copper bonded aluminium oxide ceramic (DBC)
- Glass passived thyristor chips
- Up to 1600V reverse voltage
- UL recognized, file no. E 63 532

Typical Applications*

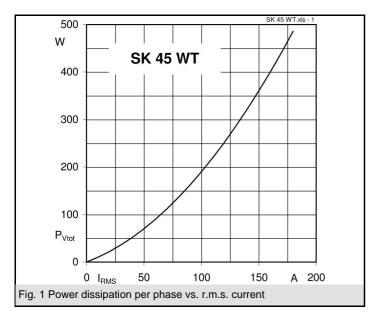
- Soft starters
- Light control (studios, theaters...)
- Temperature control

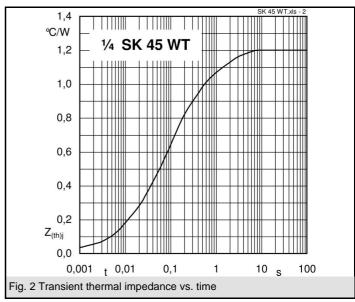
V _{RSM}	V_{RRM}, V_{DRM}	I _{RMS} = 47 A A (full conduction)
V	V	(T _s = 85 °C)
900	800	SK 45 WT 08
1300	1200	SK 45 WT 12
1700	1600	SK 45 WT 16

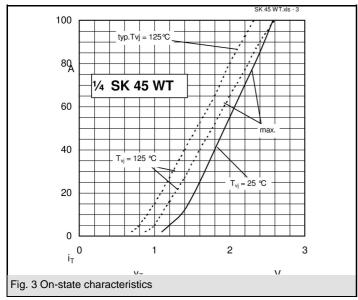
Symbol	Conditions	Values	Units
I _{RMS}	W1C ; sin. 180° ; T _s = 100°C	33	Α
	W1C ; sin. 180° ; T _s = 85°C	47	Α
I _{TSM}	T _{vi} = 25 °C ; 10 ms	450	Α
	T _{vi} = 125 °C ; 10 ms	380	Α
i²t	T _{vj} = 25 °C ; 8,310 ms	1000	A²s
	T _{vj} = 125 °C ; 8,310 ms	720	A²s
V _T	T _{vj} = 25 °C, I _T = 75 A	max. 1,9	V
$V_{T(TO)}$	T _{vi} = 125 °C	max. 1	V
r _T	T _{vi} = 125 °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 °C, $V_{RD} = V_{RRM}$	max. 10	mA
t _{gd}	T_{vj} = 25 °C, I_{G} = 1 A; di_{G}/dt = 1 A/ μ s	1	μs
t_{gr}	V _D = 0,67 *V _{DRM}	2	μs
(dv/dt) _{cr}	T _{vi} = 125 °C	1000	V/µs
(di/dt) _{cr}	T _{vi} = 125 °C; f= 5060 Hz	50	A/µs
t _q	T_{vi}^{yj} = 125 °C; typ.	120	μs
I _H	T _{vi} = 25 °C; typ. / max.	80 / 150	mA
I_{L}	$T_{vj}^{'}$ = 25 °C; R_G = 33 Ω ; typ. / max.	150 / 300	mA
V _{GT}	$T_{vi} = 25 ^{\circ}\text{C}; \text{d.c.}$	min. 3	V
I _{GT}	T_{vi}^{s} = 25 °C; d.c.	min. 100	mA
V_{GD}	T_{vi}^{s} = 125 °C; d.c.	max. 0,25	V
I_{GD}	T _{vj} = 125 °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
3 -,	sin 180° per W1C	0,62	K/W
T_{vi}		-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
а			m/s²
m		13	g
Case	SEMITOP® 2	T 37	

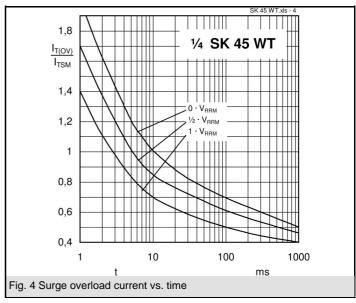


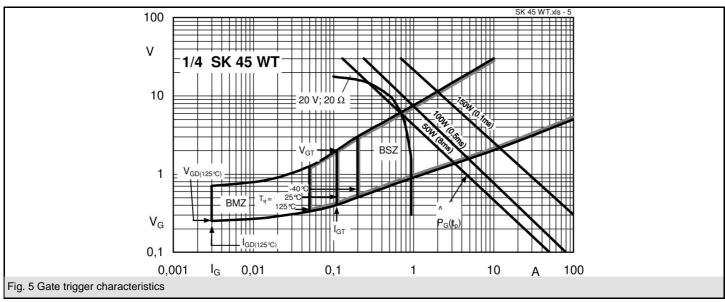
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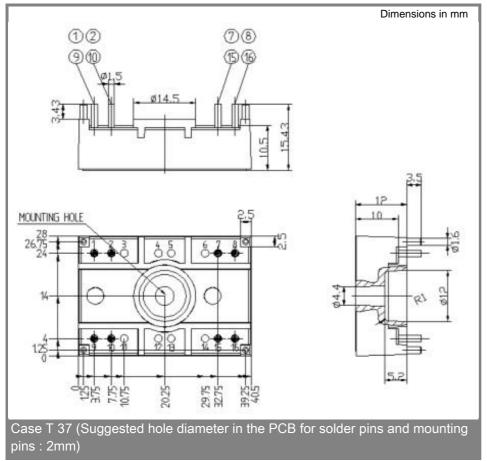


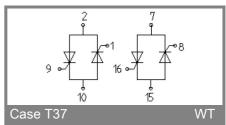












^{*} The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our personal.

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T3710N06TOF VT T390N16TOF T420N16TOF T460N24TOF T501N70TOH T560N16TOF T590N16TOF T640N14TOF TD250N14KOF

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