

SEMITOP® 2

Antiparallel Thyristor Module

SK 25 WT

Preliminary Data

Features

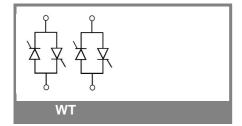
- Compact Design
- · One screw mounting
- Heat transfer and isolation through direct copper bonded aluminium oxide ceramic (DBC)
- · Glass passived thyristor chips
- Up to 1600V reverse voltage
- UL recognized, file no. E 63 532

Typical Applications*

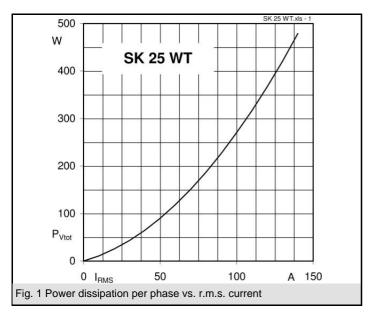
- Soft starters
- Light control (studios, theaters...)
- Temperature control

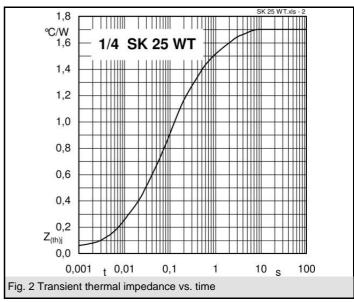
V _{RSM} V	V _{RRM} , V _{DRM} V	I _{RMS} = 29 A A (full conduction) (T _s = 85 °C)
900	800	SK 25 WT 08
1300	1200	SK 25 WT 12
1700	1600	SK 25 WT 16

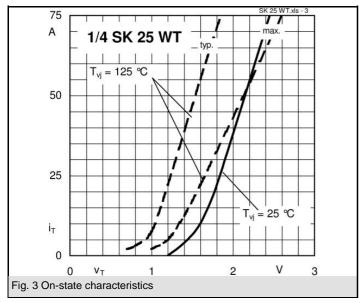
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Symbol	Conditions	Values	Units
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	I _{RMS}	W1C ; sin. 180° ; T _s = 100°C	20	Α
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		W1C ; sin. 180° ; T _s = 85°C	29	Α
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	I _{TSM}	T _{vi} = 25 °C ; 10 ms	320	Α
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			280	Α
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	i²t	$T_{vj} = 25 ^{\circ}\text{C} \; ; 8,310 \text{ ms}$	510	A²s
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		T _{vj} = 125 °C ; 8,310 ms	390	A²s
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	V _T		max. 2,45	=
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$V_{T(TO)}$		max. 1,1	V
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	r_T	1 2	max. 20	mΩ
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$I_{DD};I_{RD}$	T_{vj} = 125 °C, V_{RD} = V_{RRM}	max. 8	mA
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	t_{gd}	1 3	1	μs
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	t_{gr}	$V_{D} = 0.67 * V_{DRM}$	1	μs
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	(dv/dt) _{cr}		1000	V/µs
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				A/µs
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		[*]		μs
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	I _H	"	80 / 150	mA
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	I_{L}	T 2	150 / 300	mA
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V_{GT}		min. 2	V
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	I_{GT}		min. 100	mA
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V_{GD}	T _{vj} = 125 °C; d.c.	max. 0,25	V
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	I_{GD}	-1	max. 3	mA
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$R_{th(j-s)}$	cont. per thyristor	1,7	1
Introl sin 180° per W1C 0,89 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 2,5 Nm M _t nm 19 g		1	· ·	1
Sin 180° per W1C	$R_{th(j-s)}$	·	· ·	
T _{stg}		sin 180° per W1C	•	
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 2,5 Nm M _t Nm Nm Nm m 19 g				_
Visol a. c. 50 Hz; r.m.s.; 1 s / 1 min. 3000 / 2500 V~ M _s Mounting torque to heatsink 2,5 Nm M _t Nm Nm a 19 g	T_{stg}			
Ms Mounting torque to heatsink 2,5 Nm Nm Nm m/s² m 19 g	T _{solder}	terminals, 10s	260	°C
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V _{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3000 / 2500	V~
a m/s² m/s² g	M_s	Mounting torque to heatsink	2,5	Nm
m 19 g	M_t			
	а			m/s²
Case SEMITOP® 2 T 37	m		19	g
	Case	SEMITOP® 2	T 37	

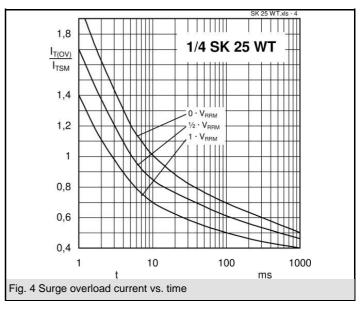


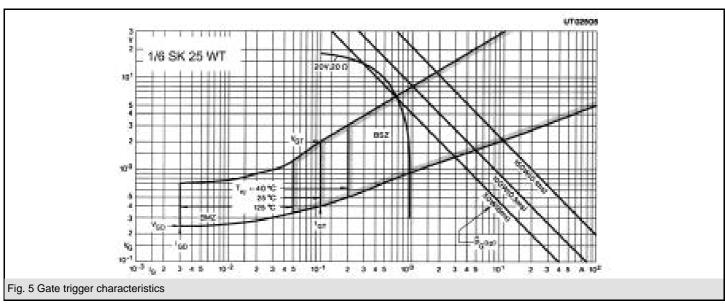
SK 25 WT

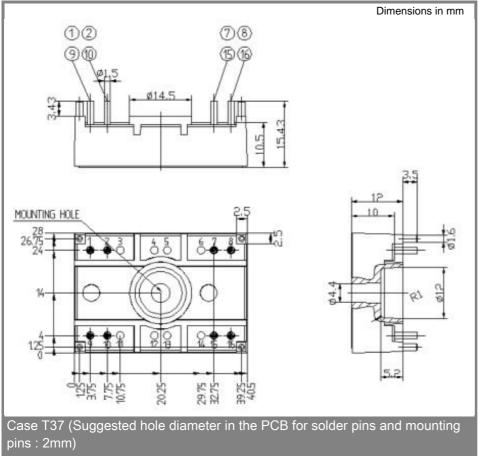


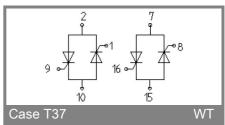












^{*} The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification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

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