SK 25 WT



SEMITOP[®] 2

Antiparallel Thyristor Module

SK 25 WT

Preliminary Data

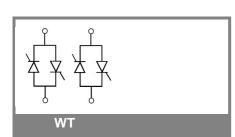
Features

- 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

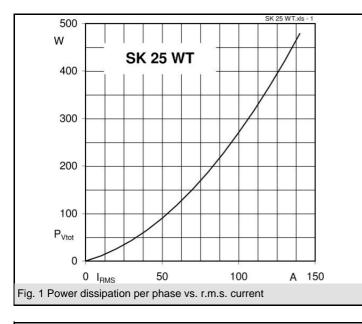
Typical Applications

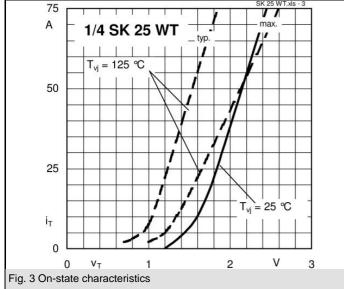
- Soft starters
- Light control (studios, theaters...)
- Temperature control

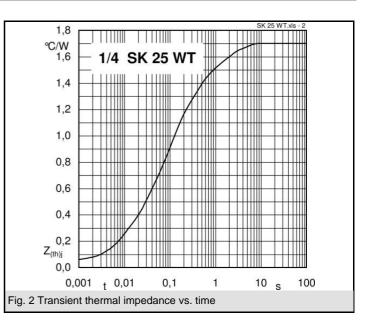
V _{RSM}	V _{RRM} , V _{DRM}	I _{RMS} = 29 A A (full conduction)	
V	V	(T _s = 85 °C)	ŕ	
900	800	SK 25 WT 08		
1300 1200			SK 25 WT 12	
1700 1600		SK 25 WT 16		
1700	1000	SK 25 W1 10		
Symbol	Conditions	Values	Units	
I _{RMS}	W1C ; sin. 180° ; T _s = 100	20	А	
	W1C ; sin. 180° ; T _s = 85°	29	А	
I _{TSM}	T _{vi} = 25 °C ; 10 ms	320	А	
	T _{vi} = 125 °C ; 10 ms	280	А	
i²t	T _{vi} = 25 °C ; 8,310 ms	510	A²s	
	T _{vj} = 125 °C ; 8,310 ms	390	A²s	
V _T	T _{vi} = 25 °C, I _T = 75 A	max. 2,45	V	
V _{T(TO)}	T _{vi} = 125 °C	max. 1,1	V	
r _T	T _{vi} = 125 °C	max. 20	mΩ	
I _{DD} ;I _{RD}	T _{vj} = 125 °C, V _{RD} =V _{RRM}	max. 8	mA	
t _{gd}	$T_{vj} = 125 \text{ °C}, V_{RD} = V_{RRM}$ $T_{vj} = 25 \text{ °C}, I_G = 1 \text{ A}; di_G/d$	• 1 Α/μs 1	μs	
t _{gr}	V _D = 0,67 *V _{DRM}	1	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} = 125 °C; typ.	80	μs	
I _H	T _{vi} = 25 °C; typ. / max.	80 / 150	mA	
IL	$T_{vj} = 25$ °C; $R_{G} = 33 \Omega$; ty	/ max. 150 / 300	mA	
V _{GT}	T _{vi} = 25 °C; d.c.	min. 2	V	
I _{GT}	T _{vi} = 25 °C; d.c.	min. 100	mA	
V _{GD}	T _{vi} = 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	1,7	K/W	
	sin 180° per thyristor	1,78	K/W	
R _{th(j-s)}	cont. per W1C	0,85	K/W	
	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	in. 3000 / 2500	V~	
M _s	Mounting torque to heatsir	2,5	Nm	
M _t			Nm	
а			m/s²	
m		19	g	
Case	SEMITOP [®] 2	Т 37		

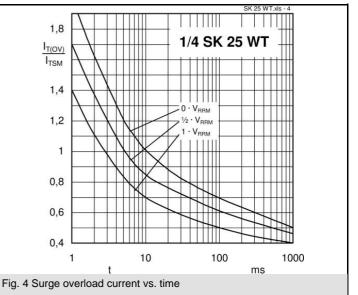


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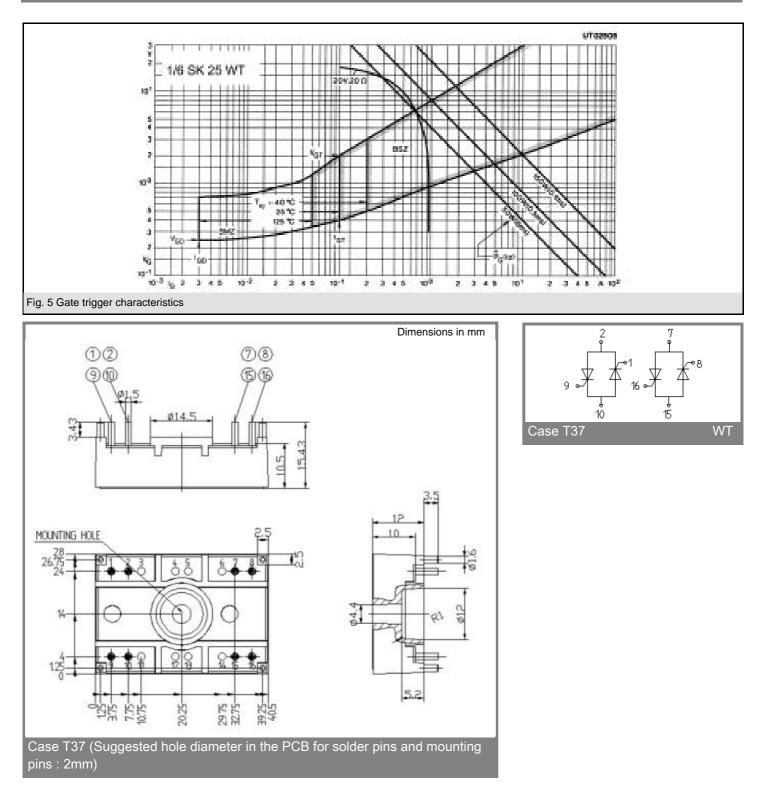








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