SK 35 NT



Thyristor Module

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Preliminary Data

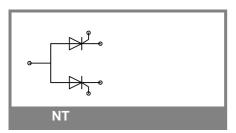
Features

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

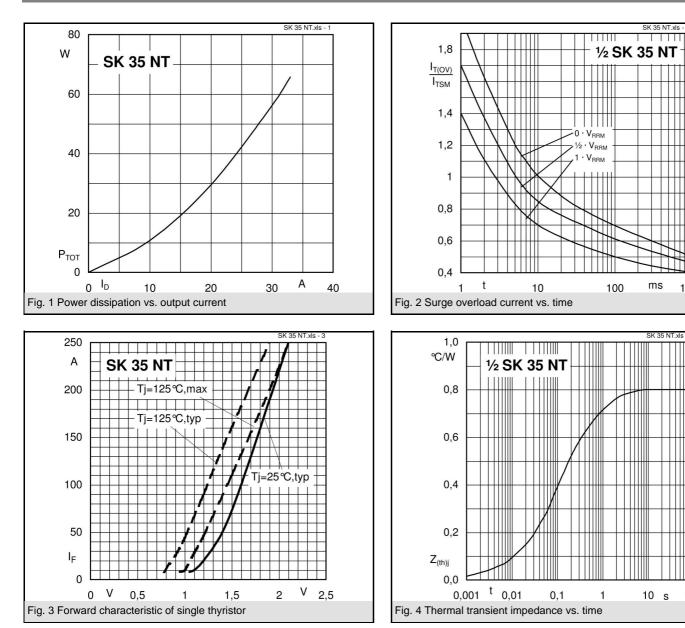
Typical Applications

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

V _{RSM}	1	V _{RRM} , V _{DRM}	I _{RM}	_S = (T _h = 80°C) A (full conduction	on)
V V		V	(T _h = 85 °C)		
900		800		SK 35 NT 08	
1300)	1200		SK 35 NT 12	
1700)	1600		SK 35 NT 16	
Symbol	Con	ditions		Values	Unit
I _{RMS}	<i>'</i>	180° ;			A
		180° ;			A
I _{TAV}	sin. 1	80°; T _h = 100°C		23	A
I _{TAV}	sin. 1	80°; T _h = 85°C		33	A
I _{TSM}	T _{vi} =	25 °C ; 10 ms		1000	A
	$T_{vi} =$	125 °C ; 10 ms		900	A
i²t	$T_{vi} =$	25 °C ; 8,3 10 ms		5000	A²s
	T _{vi} =	125 °C ; 8,3 10 ms		4000	A²s
V _T	,	25 °C, I _T = 120 A		max. 1,8	V
V _{T(TO)}		125 °C		max. 1	V
r _T		125 °C		max. 6	mΩ
I _{DD} ;I _{RD}		25 °C, V _{RD} =V _{RRM}		max. 0,5	mA
	,	125 °C, V _{RD} =V _{RRM}		max. 15	mA
t _{gd}				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= 50 60 H	z	50	A/µs
t _q	T _{vi} =	125 °C; typ.		80	μs
I _H	$T_{vj} =$	25 °C; typ. / max.		100 / 200	mA
I _L	T_{vj} = 25 °C; R_G = 33 Ω ; typ. / max.		o. / max.	200 / 400	mA
V _{GT}		25 °C; d.c.		min. 2	V
I _{GT}		25 °C; d.c.		min. 100	mA
V _{GD}	T _{vj} =	125 °C; d.c.		max. 0,25	V
I_{GD}	T _{vj} =	125 °C; d.c.		max. 5	mA
R _{th(j-h)}		per thyristor		0,8	K/W
0,	cont.	per module		0,4	K/W
R _{th(j-h)}		80°, per thyristor		0,84	K/W
	sin 1	80° per module		0,42	K/W
T _{vj}				-40 +125	°C
T _{stg}				-40 +125	°C
T _{solder}		nals, 10s		260	°C
V _{isol}	a. c.	50 Hz; r.m.s.; 1 s / 1 r	nin.	3000 / 2500	V~
M _s					Nm
M _t	mour	nting torque		1,5	Nm
а					m/s²
m				13	g
Case	ase SEMITOP®1			Т9	



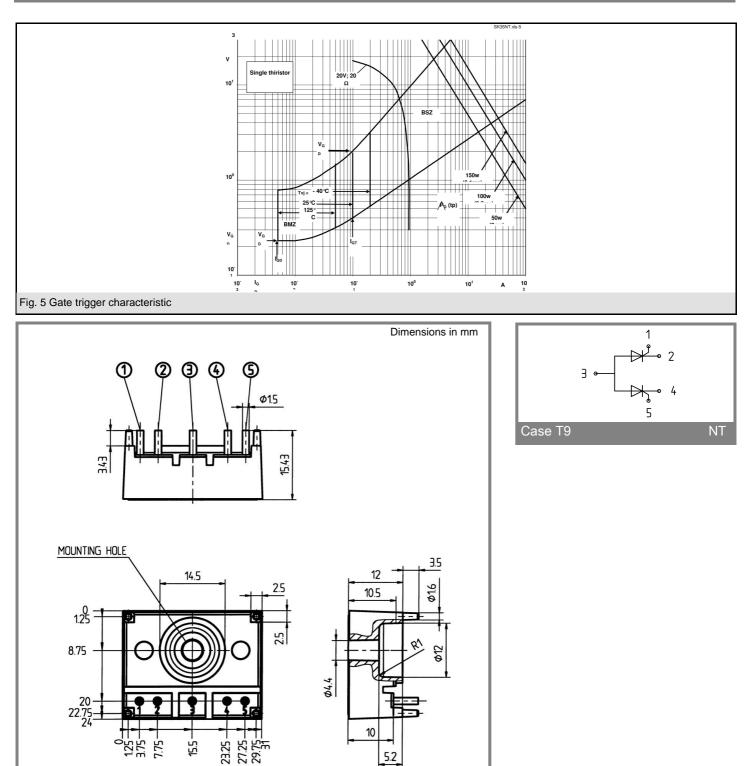
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1000

100

SK 35 NT



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Case T9