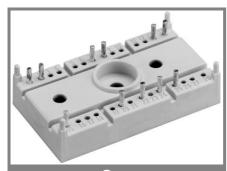
SK 70 DT



SEMITOP® 3

Controlled Bridge Rectifier

SK 70 DT

Preliminary Data

Features

- Compact design
- · One screw mounting
- Heat transfer and insolation 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
- · Temperature control
- · Motor control

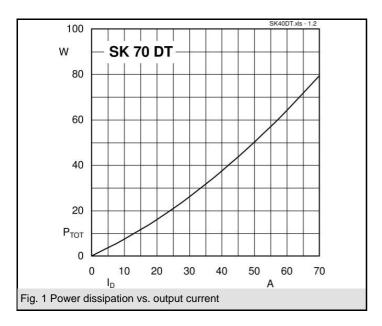
V _{RSM}	V_{RRM}, V_{DRM}	I _D = 68 A (full conduction)
V	V	(T _s = 80 °C)
900	800	SK 70 DT 08
1300	1200	SK 70 DT 12
1700	1600	SK 70 DT 16

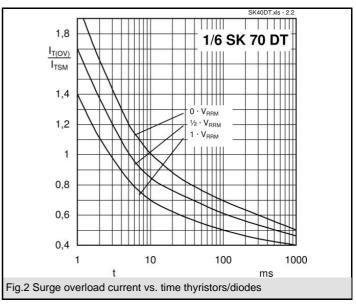
Symbol	Conditions	Values	Units
I _D	T _s = 80 °C	68	Α
I _{TSM}	T _{vi} = 25 °C; 10 ms	450	Α
	$T_{vi}^{'j}$ = 125 °C; 10 ms	380	Α
i²t	T _{vi} = 25 °C; 8,3 10 ms	1000	A²s
	T _{vj} = 125 °C; 8,310 ms	720	A²s
V _T	T _{vi} = 25 °C; 75A	max. 1,9	V
$V_{T(TO)}$	T _{vi} = 125 °C;	1	V
r _T	T _{vj} = 125 °C	10	mΩ
I _{DD} ; I _{RD}	$T_{vj} = 125 \text{ °C}; V_{DD} = V_{DRM}; V_{RD} = V_{RRM}$	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 _{vi} = 125 °C; d.c.	max. 1000	V/µs
(di/dt) _{cr}	T _{vi} = 125 °C; d.c.; f = 5060 Hz	max. 50	A/µs
t_q	$T_{vi} = 125 ^{\circ}\text{C}; \text{d.c.}; \text{typ.}$	80	μs
I _H	T _{vj} = 25 °C; d.c.; typ. / max.	80 / 150	mA
IL	$T_{vj} = 25 ^{\circ}\text{C}; \text{d.c.}; R_{G} = 33 \Omega$	150 / 300	mA
V _{GT}	T _{vi} = 25 °C; d.c.	min. 2	V
I _{GT}	$T_{vi} = 25 ^{\circ}\text{C}; \text{d.c.}$	min. 100	mA
V_{GD}	$T_{vi} = 125 ^{\circ}\text{C}; \text{d.c.}$	max. 0,25	V
I_{GD}	$T_{vj} = 125 ^{\circ}\text{C}; \text{d.c.}$	max. 3	mA
Rth(j-s)	Per thyristor	1,2	K/W
			K/W
T _{solder}	Terminals, 10s	260	°C
T _{vi}		-40+125	°C
T _{stg}		-40+125	°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
а			m/s²
	woight	30	
m	weight		g
Case	SEMITOP® 3	T 15	

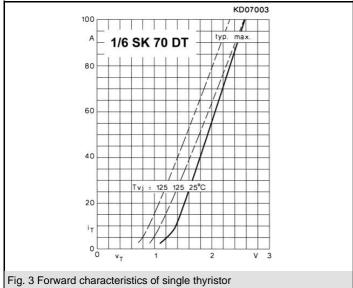
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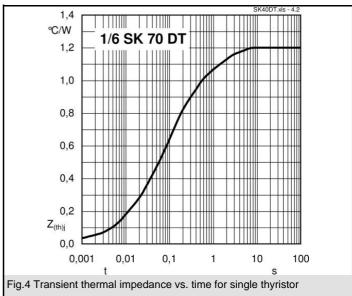
DT		

SK 70 DT

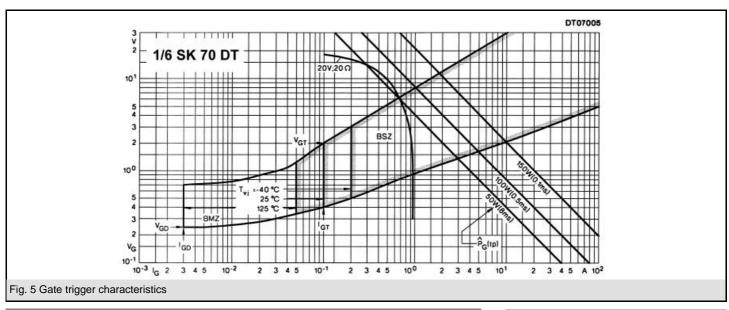


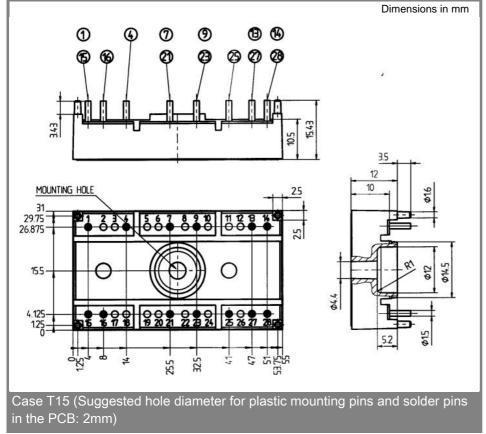


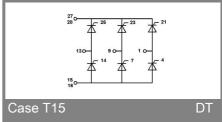




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