SKKE 600F



Fast Diode Modules

SKKE 600F

Features

- CAL (controlled axial lifetime) technology, patent No. 43 10 44
- Heat transfer through aluminium oxide DCB ceramic isolated metal baseplate
- Small recovered charge
- Fast & soft recovery CAL diodes
- UL recognized, file no. E 63 532

Typical Applications

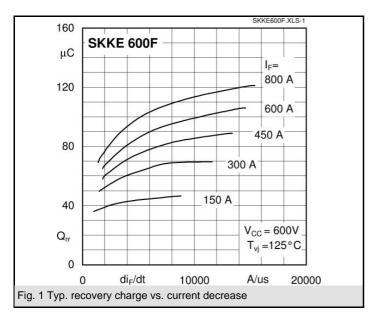
- Freewheeling diodes for IGBT
- Freewheeling diode for inductive loads
- · Brake choppers
- . Inverters and DC choppers
- AC motor control
- Boost choppers
- up to 20 kHz

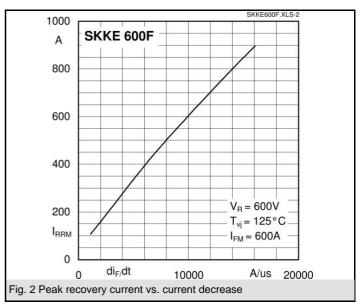
V _{RSM}	V_{RRM}	I _{FRMS} = 450 A (maximum value for continuous operation)		
V	V	I _{FAV} = 360 A (sin. 180; 50 Hz; T _c = 85 °C)		
1200	1200	SKKE 600F12		

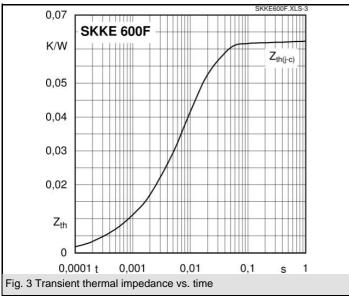
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 85 (100) °C	360 (305)	Α
I _{FSM}	T _{vi} = 25 °C; 10 ms	7000	Α
	T _{vi} = 150 °C; 10 ms	5800	Α
i²t	$T_{vj} = 25 ^{\circ}\text{C}; 8,3 \dots 10 \text{ms}$	245000	A²s
	T _{vj} = 150 °C; 8,3 10 ms	168000	A²s
V _F	T _{vj} = 25 °C; I _F = 600 A	max. 2,5	V
$V_{(TO)}$	T _{vj} = 150 °C	max. 1,2	V
r_T	T _{vj} = 150 °C	max. 1,9	mΩ
I _{RD}	$T_{vj} = 25 ^{\circ}C; V_{RD} = V_{RRM}$	max. 4	mA
I_{RD}	T_{vj} = 150 °C; V_{RD} = V_{RRM}	max. 30	mA
Q _{rr}	T _{vj} = 150 °C, I _F = 600 A,	80	μC
I _{RM}	$-di/dt = 4000 \text{ A/µs}, V_R = 600 \text{ V}$	280	Α
t _{rr}		780	ns
E _{rr}		21	mJ
R _{th(j-c)}	DC	0,062	K/W
$R_{th(c-s)}$		0,038	K/W
T_{vj}		- 40 + 150	°C
T _{stg}		- 40 + 125	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1s / 1 min.	4800 / 4000	V~
M _s	to heatsink	3 5	Nm
M_t	to terminals	2,5 5	Nm
а		5 * 9,81	m/s²
m	approx.	330	g
Case	SEMITRANS 4	A 68	

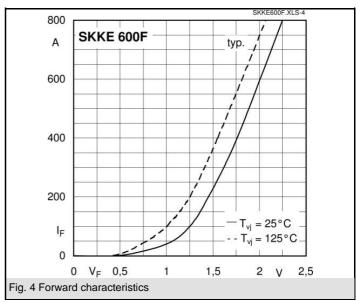


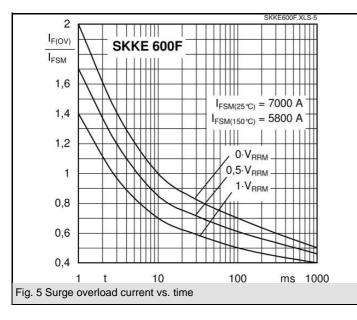
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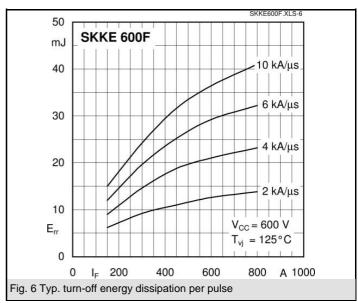




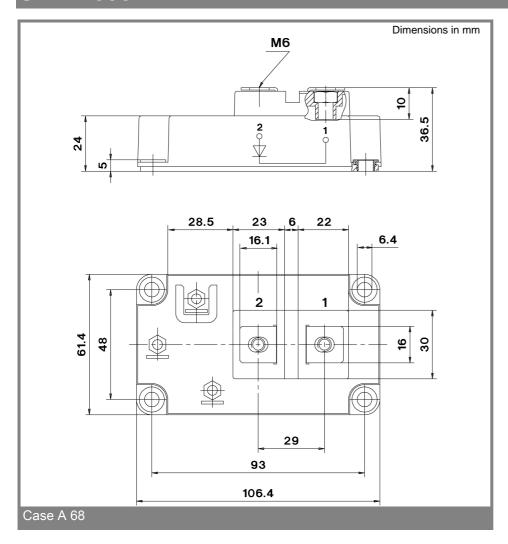








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