SKKE 600F



SEMIPACK®

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*

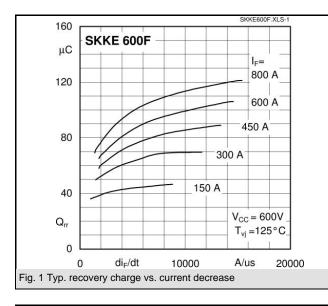
- Freewheeling diodes for IGBT
- Freewheeling diode for
- inductive loads
- Brake choppers
- Inverters and DC choppers
- AC motor control
- Boost choppers
- up to 20 kHz

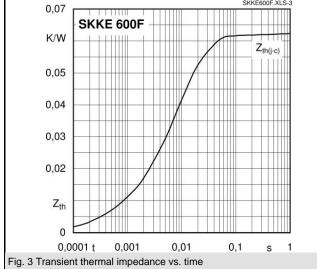
V _{RSM}	V _{RRM}	I _{FRMS} = 450 A (maximum value for continuous operation)		
V	V	I _{FAV} = 360 A (sin. 180; 50 Hz; T _c = 85 °C)		
1200	1200	SKKE 600F12		

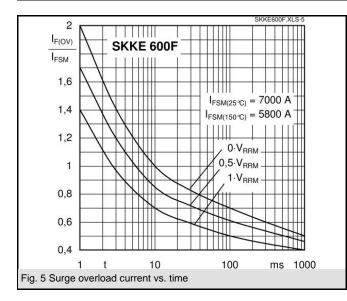
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 85 (100) °C	360 (305)	А
I _{FSM}	T _{vi} = 25 °C; 10 ms	7000	Α
	T _{vi} = 150 °C; 10 ms	5800	А
i²t	T _{vj} = 25 °C; 8,3 10 ms	245000	A²s
	T _{vj} = 150 °C; 8,3 10 ms	168000	A²s
V _F	T _{vi} = 25 °C; I _F = 600 A	max. 2,5	V
V _(TO)	T _{vi} = 150 °C	max. 1,2	V
r _T	T _{vj} = 150 °C	max. 1,9	mΩ
I _{RD}	$T_{vj} = 25 \text{ °C}; V_{RD} = V_{RRM}$	max. 4	mA
I _{RD}	T _{vj} = 150 °C; V _{RD} = V _{RRM}	max. 30	mA
Q _{rr}	T _{vi} = 150 °C, I _F = 600 A,	80	μC
I _{RM}	-di/dt = 4000 A/µs, V _R = 600 V	280	А
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~
Ms	to heatsink	3 5	Nm
Mt	to terminals	2,5 5	Nm
а		5 * 9,81	m/s²
m	approx.	330	g
Case	SEMITRANS 4	A 68	

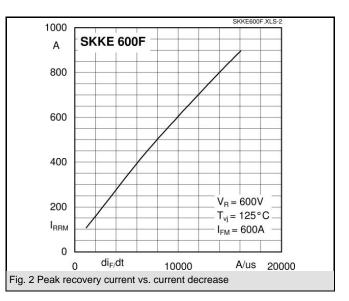


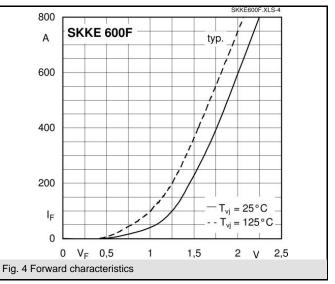
THER, DIODE, ITHINISTOR, MODU

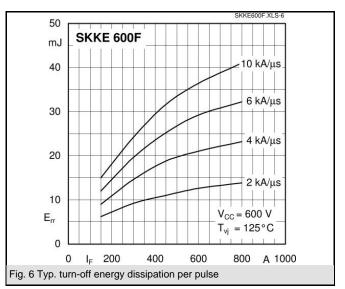






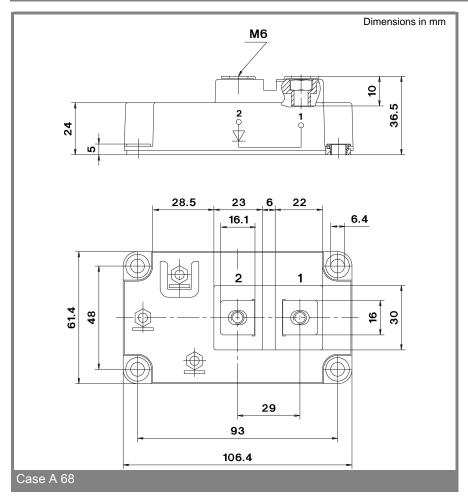






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SKKE 600F



* 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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