SKKE 301F



SEMIPACK[®] 2

Fast Diode Modules

SKKE 301F

Features

- CAL (controlled axial lifetime) technology, patent No. DE 43 10 44
- Heat transfer through ceramic isolated metal baseplate
- Very short recovery times
- Very soft recovery over the whole current range
- Low switching losses
- UL recognized, file no. E 63 532

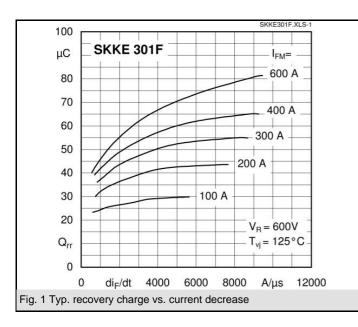
Typical Applications*

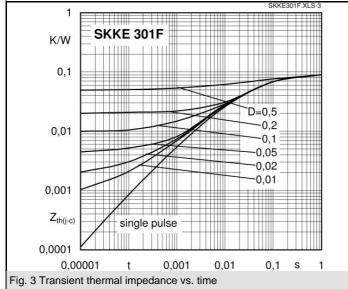
- Self-commutated inverters
- DC choppers
- AC motor speed control
- inductive heating
- Uninterruptible power supplies
- Electronic welders
- General power switching
 applications

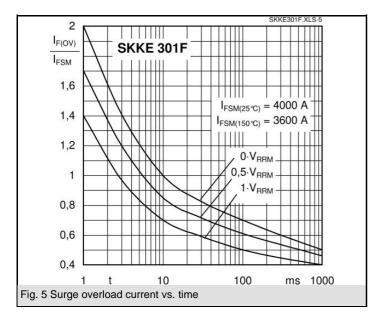
V _{RSM}	V _{RRM}	I _{FRMS} = 450 A (maximum value for continuous operation)		
V	V	I _{FAV} = 300 A (sin. 180; 50 Hz; T _c = 43 °C)		
1200	1200	SKKE 301F12		

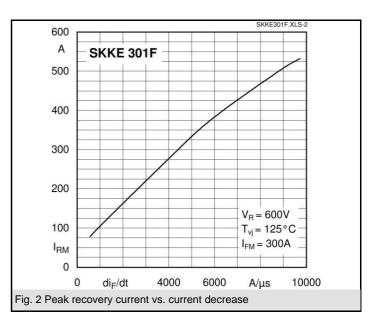
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 85 (100) °C	220 (185)	А
I _{FSM}	T _{vi} = 25 °C; 10 ms	4000	A
	T _{vi} = 150 °C; 10 ms	3600	А
i²t	T _{vj} = 25 °C; 8,3 10 ms	80000	A²s
	T _{vj} = 150 °C; 8,3 10 ms	64800	A²s
V _F	T _{vi} = 25 °C; I _F = 300 A	max. 2,2	V
V _(TO)	T _{vj} = 150 °C	max. 1,2	V
r _T	T _{vj} = 150 °C	max. 2,75	mΩ
I _{RD}	$T_{vj} = 25 \text{ °C}; V_{RD} = V_{RRM}$	max. 1	mA
I _{RD}	T _{vj} = 150 °C; V _{RD} = V _{RRM}	max. 80	mA
Q _{rr}	T _{vi} = 125 °C, I _F = 300 A,	42	μC
I _{RM}	-di/dt = 2000 A/µs, V _R = 600 V	165	А
t _{rr}		690	ns
E _{rr}		10,8	mJ
R _{th(j-c)}		0,11	K/W
R _{th(c-s)}		0,05	K/W
T _{vj}		- 40 + 150	°C
T _{stg}		- 40 + 125	°C
V _{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	4800 / 4000	٧~
Ms	to heatsink	5 ± 15 %	Nm
Mt	to terminal	5 ± 15 %	Nm
а		5 * 9,81	m/s²
m	approx.	160	g
Case		A 54	

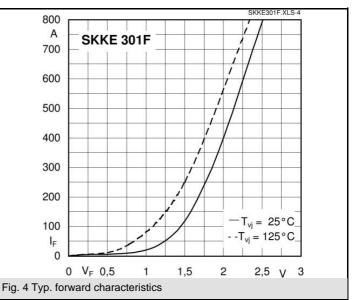
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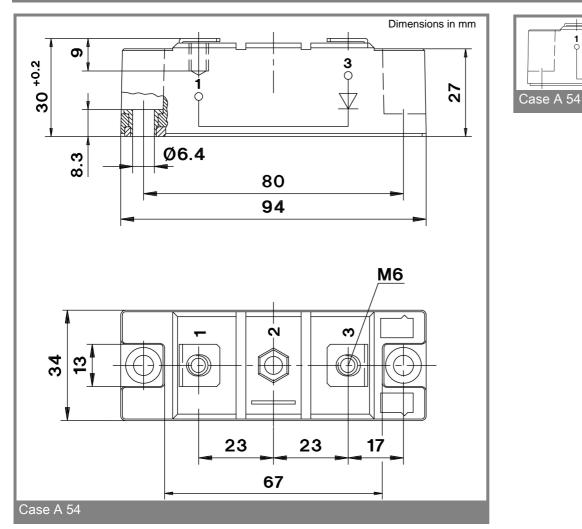








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* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances 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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