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

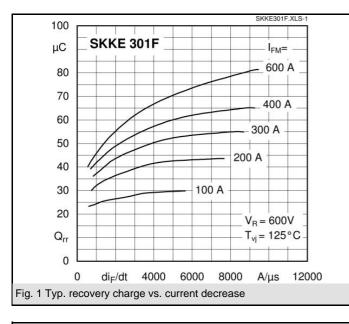
V _{RSM}	V _{RRM}	I _{FRMS} = 450 A (maximum value for continuous operation)		
V	V	I _{FAV} = 300 A (sin. 180; 50 Hz; T _c = 43 °C)		
1200	1200	SKKE 301F12		

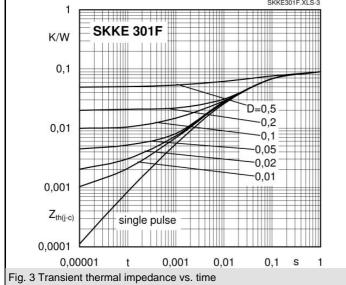
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 85 (100) °C	220 (185)	А
I _{FSM}	T _{vi} = 25 °C; 10 ms	4000	Α
	T _{vi} = 150 °C; 10 ms	3600	А
i²t	T _{vj} = 25 °C; 8,3 10 ms	80000	A²s
	T _{vj} = 150 °C; 8,3 10 ms	64800	A²s
V _F	T _{vi} = 25 °C; I _F = 300 A	max. 2,2	V
V _(TO)	T _{vj} = 150 °C	max. 1,2	V
r _T	T _{vi} = 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
Err		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	V~
Ms	to heatsink	5 ± 15 %	Nm
Mt	to terminal	5 ± 15 %	Nm
a		5 * 9,81	m/s²
m	approx.	160	g
Case		A 54	

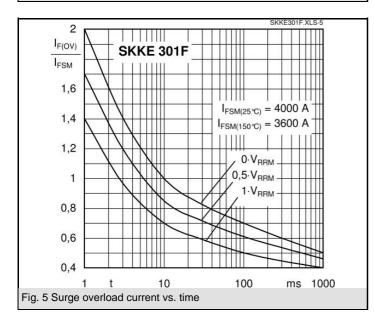


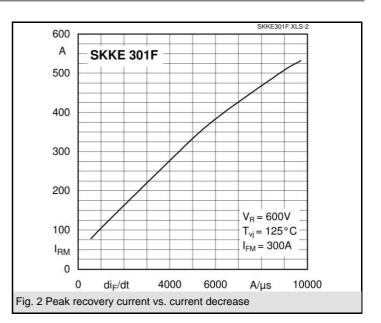
SKKE

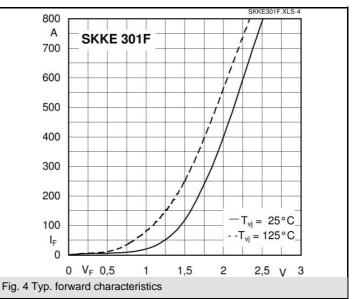
SKKE 301F



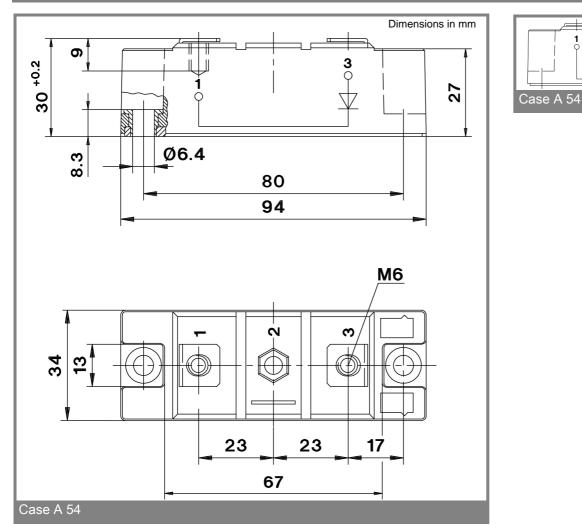








SKKE 301F



This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.

3 ○ ▽

SKKE

1 0