SKKE 290F



SEMIPACK[®] 2

Fast Diode Modules

SKKE 290F

Preliminary Data

Features

- CAL (controlled axial lifetime) chip technology, patent No. DE 43 10 44
- Very soft recovery over the whole current range
- Very short recovery times
- Low switching losses
- Heat transfer through ceramic isolated metal baseplate
- Materials and distances according to UL

Typical Applications

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

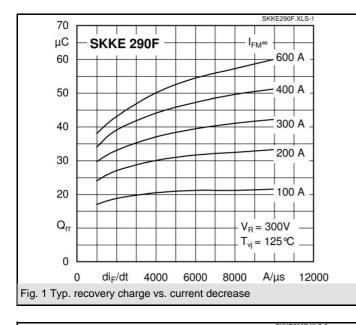
V _{RSM}	V _{RRM}	I_{FRMS} = 455 A (maximum value for continuous operation)		
V	V	I_{FAV} = 290 A (sin. 180; 50 Hz; T _c = 109 °C)		
600	600	SKKE 290F06		

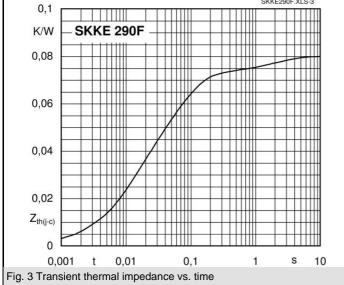
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 85 (100) °C	390 (330)	А
I _{FSM}	T _{vi} = 25 °C; 10 ms	7000	А
	T _{vi} = 150 °C; 10 ms	6000	А
i²t	T _{vj} = 25 °C; 8,3 10 ms	245000	A²s
	T _{vj} = 150 °C; 8,3 10 ms	180000	A²s
V _F	T _{vi} = 25 °C; I _F = 400 A	max. 1,45	V
V _(TO)	T _{vj} = 150 °C	max. 0,9	V
r _T	$T_{vj} = 150 \ ^{\circ}C$	max. 1,2	mΩ
I _{RD}	$T_{vj} = 25 \text{ °C}; V_{RD} = V_{RRM}$	max. 0,4	mA
I _{RD}	T _{vj} = 150 °C; V _{RD} = V _{RRM}	max. 60	mA
Q _{rr}	T _{vj} = 125 °C, I _F = 300 A,	33,5	μC
I _{RM}	-di/dt = 1600 A/μs, V _R = 300 V	160	А
t _{rr}		580	ns
E _{rr}		3,6	mJ
R _{th(j-c)}		0,08	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.	3600 / 3000	٧~
Ms	to heatsink	5 ± 15 %	Nm
Mt	to terminals	5 ± 15 %	Nm
a		5 * 9,81	m/s²
m	approx.	160	g
Case		A 54	

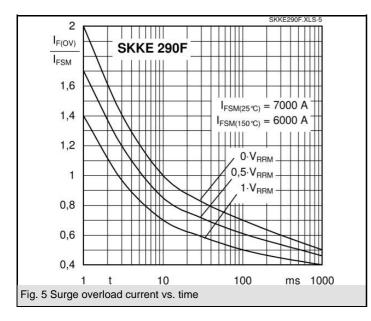


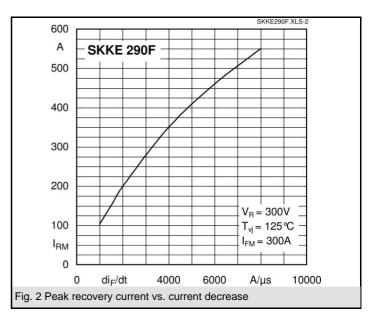
SKKE

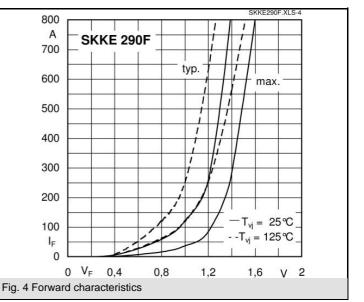
DIODE, I HYRISTOR, MC



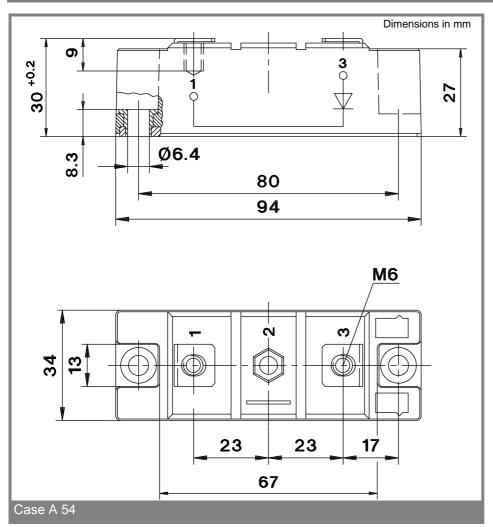








SKKE 290F



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