SKKE 310F



SEMIPACK[®] 2

Fast Diode Module

SKKE 310F

Preliminary Data

Features

- CAL (controlled axial lifetime) technology, patent No. DE 43 10 44
- Heat transfer through ceramic isolated metal baseplate
- Very short recovery times
- Soft recovery
- Low switching losses

Typical Applications

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

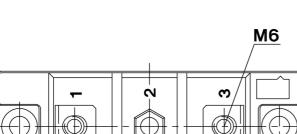
V _{RSM}	V _{RRM}	I _{FRMS} = 455 A (maximum value for continuous operation)
V	V	I _{FAV} = 310 A (sin. 180; 50Hz; T _c = 84 °C)
1200	1200	SKKE 310F12

Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 85 (100) °C	308 (260)	А
I _{FSM}	T _{vi} = 25 °C; 10 ms	6500	А
	T _{vi} = 150 °C; 10 ms	5500	А
i²t	T _{vj} = 25 °C; 8,3 10 ms	211000	A²s
	T _{vj} = 150 °C; 8,3 10 ms	151000	A²s
V _F	T _{vi} = 25 °C; I _F = 400 A	max. 2,1	V
V _(TO)	T _{vi} = 150 °C	max. 1,2	V
r _T	T _{vi} = 150 °C	max. 1,9	mΩ
I _{RD}	$T_{vj} = 25 \text{ °C}; V_{RD} = V_{RRM}$	max. 2	mA
I _{RD}	T _{vj} = 150 °C; V _{RD} = V _{RRM}	max. 60	mA
Q _{rr}	T _{vj} = 125 °C, I _F = 400 A,	58	μC
I _{RM}	-di/dt = 4000 A/µs, V _R = 600 V	400	А
t _{rr}		370	ns
E _{rr}		22	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~
M _s	to heatsink	5 ± 15%	Nm
Mt	to terminals	5 ± 15%	Nm
a		5 * 9,81	m/s²
m	approx.	250	g
Case		A 54	



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Dimensions in mm σ **30** ^{+0.2} **3** 0 27 Ø6.4 8.3 80 94



34 23 23 17 67 Case A 54

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