

VRSM VRRM V	I <sub>FRMS</sub> (maximum values for continuous operation) 220 A
	I <sub>FAV</sub> (sin. 180; T <sub>case</sub> = 65 °C; 50 Hz) 140 A
1600 1700	<b>SKKE 120 F 16</b> <b>SKKE 120 F 17</b>

Symbol	Conditions	SKKE 120 F	Units
I <sub>FAV</sub>	sin. 180; T <sub>case</sub> = 85 °C T <sub>case</sub> = 65 °C	116 140	A
I <sub>FSM</sub>	T <sub>vj</sub> = 25 °C; 10 ms T <sub>vj</sub> = 150 °C; 10 ms	2 000 1 800	A
i <sup>2</sup> t	T <sub>vj</sub> = 25 °C; 8,3...10 ms T <sub>vj</sub> = 150 °C; 8,3...10 ms	20 000 16 200	A <sup>2</sup> s
I <sub>RM</sub>	T <sub>vj</sub> = 25 °C T <sub>vj</sub> = 150 °C	60	A
t <sub>rr</sub>	di/dt=500 A/μs	90	A
Q <sub>rr</sub>	T <sub>vj</sub> = 25 °C T <sub>vj</sub> = 150 °C	typ. 250	ns
I <sub>R</sub>	V <sub>R</sub> = 1200 V T <sub>vj</sub> = 25 °C; V <sub>R</sub> = V <sub>RRM</sub> T <sub>vj</sub> = 125 °C; V <sub>R</sub> = V <sub>RRM</sub>	55 0,4 50	μC mA mA
V <sub>F</sub>	T <sub>vj</sub> = 25 °C; I <sub>F</sub> = 200 A	2,7	V
V <sub>(TO)</sub>	T <sub>vj</sub> = 150 °C	1,5	V
r <sub>T</sub>	T <sub>vj</sub> = 150 °C	4,5	mΩ
R <sub>thjc</sub>		0,2	°C/W
R <sub>thch</sub>		0,05	°C/W
T <sub>vj</sub>		- 40 ... +150	°C
T <sub>stg</sub>		- 40 ... +150	°C
V <sub>isol</sub>	a. c. 50 Hz; r.m.s.; 1 min.	4000	V~
M <sub>1</sub>	to heatsink	5 ± 15 % 44 ± 15 %	Nm lb. in
M <sub>2</sub>	to terminals	5 ± 15 % 44 ± 15 %	Nm lb. in
w	approx.	250	g
Case	→ page B 2 - 46	A 54	

<sup>1)</sup> CAL (controlled axial lifetime) technology, patent No. DE 43 10 44

## SEMIPACK® 2 Fast Diode <sup>1)</sup> Modules

### SKKE 120 F



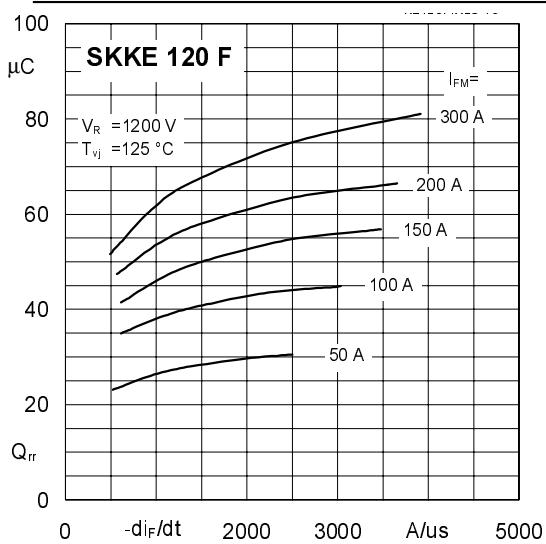
**SKKE**

#### Features

- Heat transfer through ceramic isolated metal baseplate
- Very short recovery times
- Soft recovery
- Low switching losses
- Up to 1600 V peak inverse voltage
- UL recognized, file no. E 63532

#### Typical Applications

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



ig. 16 Typ. recovered charge vs. current decrease

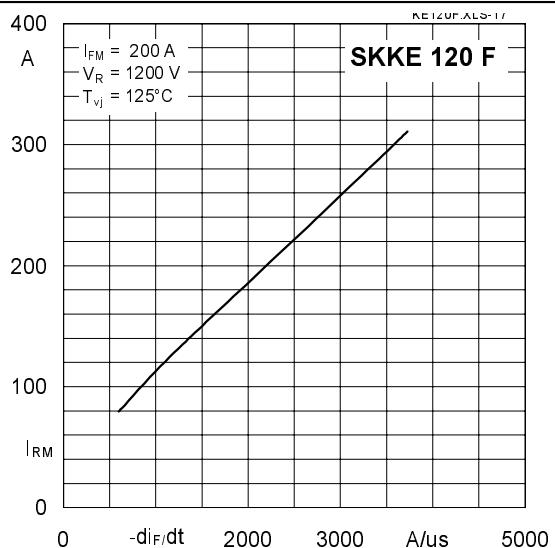
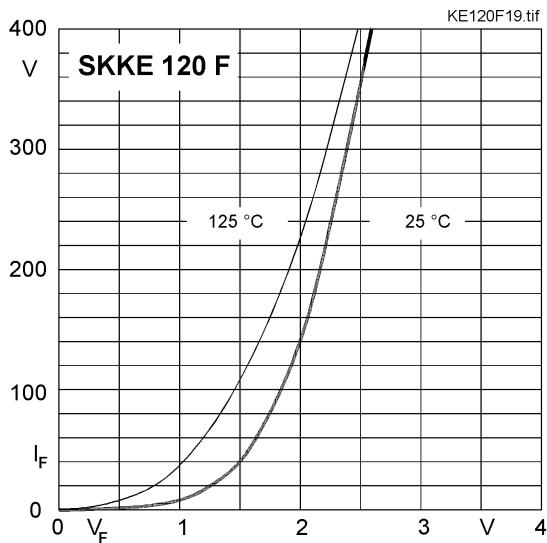


Fig. 17 Typ. peak recovery current vs. current decrease

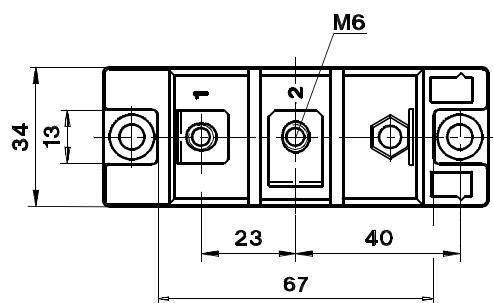
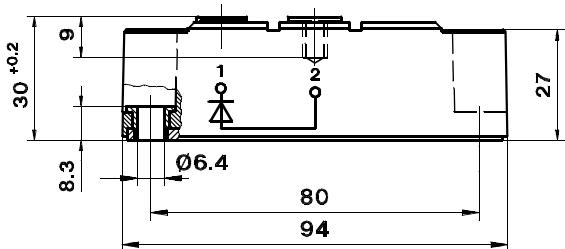


ig. 19 Typ. forward characteristic

**SKKE 165 M**

Case A 55

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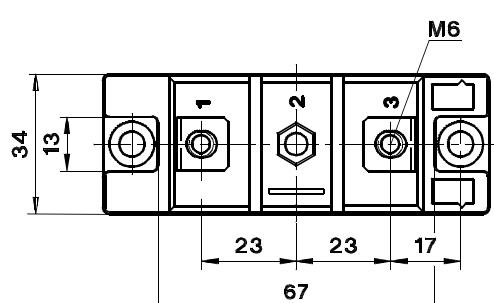
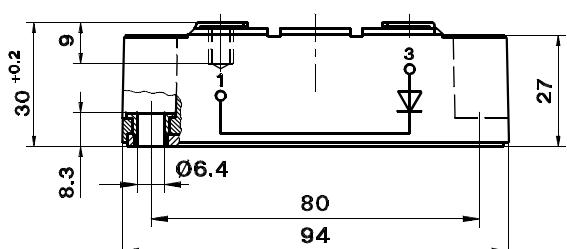


Dimensions in mm

**SKKE 120 F, 301 F**

Case A 54

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Dimensions in mm