# SKKD 75F



SEMIPACK<sup>®</sup> 2

### Fast Diode Modules

#### SKKD 75F

#### Features

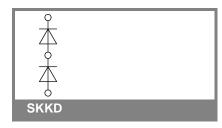
- CAL (controlled axial lifetime) technology, patent no. DE 43 10 44
- Heat transfer through ceramic isolated metal baseplate
- Very short recovery times
- Soft recovery
- Low switching losses
- UL recognized, file no. E 63 532

#### **Typical Applications\***

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

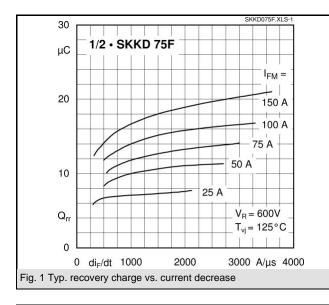
V <sub>RSM</sub>	V <sub>RRM</sub>	I <sub>FRMS</sub> = 110 A (maximum value for continuous operation)		
V	V	I <sub>FAV</sub> = 75 A (sin. 180; 50 Hz; T <sub>c</sub> = 55 °C)		
1200	1200	SKKD 75F12		

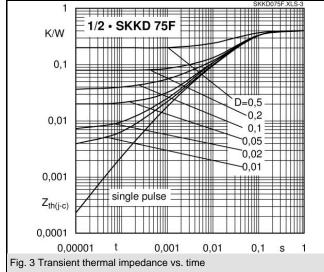
Symbol	Conditions	Values	Units
I <sub>FAV</sub>	sin. 180; T <sub>c</sub> = 85 (100) °C	58 (49)	А
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C; 10 ms	1000	Α
	T <sub>vi</sub> = 150 °C; 10 ms	900	А
i²t	T <sub>vj</sub> = 25 °C; 8,3 10 ms	5000	A²s
	T <sub>vj</sub> = 150 °C; 8,3 10 ms	4000	A²s
V <sub>F</sub>	T <sub>vj</sub> = 25 °C; I <sub>F</sub> = 75 A	max. 2,2	V
V <sub>(TO)</sub>	T <sub>vj</sub> = 150 °C	max. 1,2	V
r <sub>T</sub>	T <sub>vi</sub> = 150 °C	max. 11	mΩ
I <sub>RD</sub>	$T_{vj} = 25 \text{ °C}; V_{RD} = V_{RRM}$	max. 0,4	mA
I <sub>RD</sub>	T <sub>vj</sub> = 150 °C; V <sub>RD</sub> = V <sub>RRM</sub>	max. 20	mA
Q <sub>rr</sub>	T <sub>vi</sub> = 125 °C, I <sub>F</sub> = 75 A,	10	μC
I <sub>RM</sub>	-di/dt = 500 A/µs, V <sub>R</sub> = 600 V	30	А
t <sub>rr</sub>		920	ns
Err		2,1	mJ
R <sub>th(j-c)</sub>	per diode / per module	0,4 / 0,2	K/W
R <sub>th(c-s)</sub>	per diode / per module	0,1 / 0,05	K/W
T <sub>vj</sub>		- 40 + 150	°C
T <sub>stg</sub>		- 40 + 125	°C
V <sub>isol</sub>	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 23	

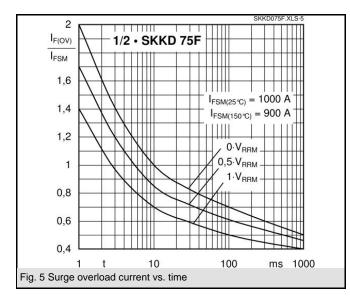


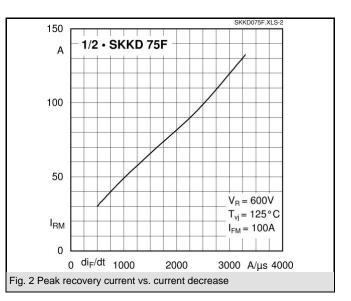
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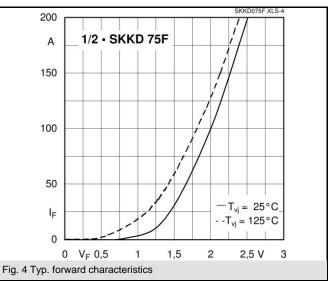
#### R,DIODE, I HYRISTOR, MODU



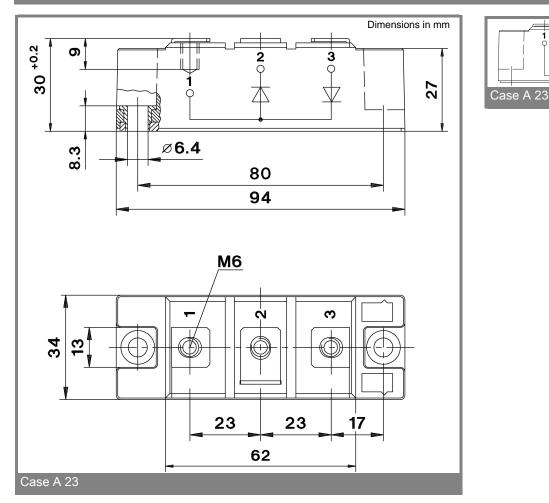








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\* The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances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