## 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

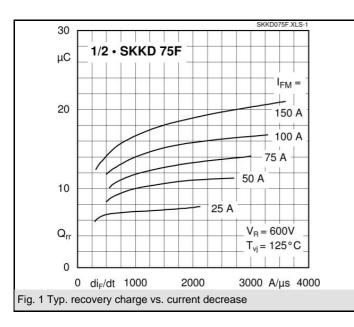
#### **Typical Applications**

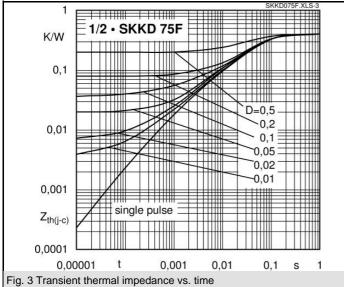
- Self-commutated inverters
- DC choppers
- AC motor speed control
- Inductive heating
- Uninterruptible power supplies
- Electronic welders
- General power switching applications

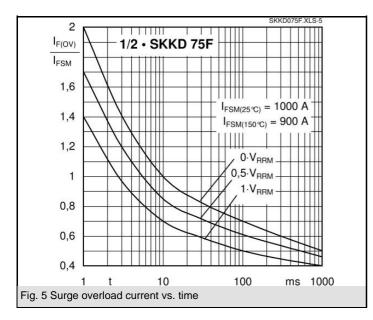
V <sub>RSM</sub>	V <sub>RRM</sub>	I <sub>FRMS</sub> = 110 A (maximum value for continuous operation)		
V	V	I <sub>FAV</sub> = 75 A (sin. 180; 50 Hz; T <sub>c</sub> = 55 °C)		
1200	1200	SKKD 75F12		

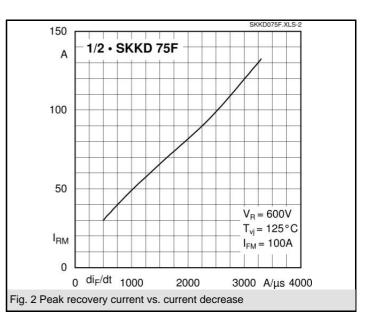
Symbol	Conditions	Values	Units
I <sub>FAV</sub>	sin. 180; T <sub>c</sub> = 85 (100) °C	58 (49)	А
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C; 10 ms	1000	Α
	T <sub>vi</sub> = 150 °C; 10 ms	900	А
i²t	T <sub>vj</sub> = 25 °C; 8,3 10 ms	5000	A²s
	T <sub>vj</sub> = 150 °C; 8,3 10 ms	4000	A²s
V <sub>F</sub>	T <sub>vi</sub> = 25 °C; I <sub>F</sub> = 75 A	max. 2,2	V
V <sub>(TO)</sub>	T <sub>vi</sub> = 150 °C	max. 1,2	V
r <sub>T</sub>	T <sub>vj</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
E <sub>rr</sub>		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	٧~
Ms	to heatsink	5 ± 15 %	Nm
Mt	to terminal	5 ± 15 %	Nm
а		5 * 9,81	m/s²
m	approx.	160	g
Case		A 23	

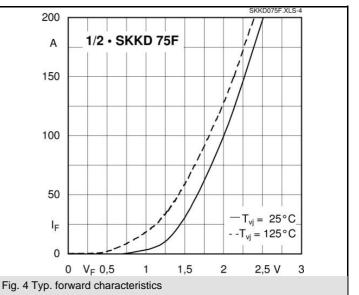




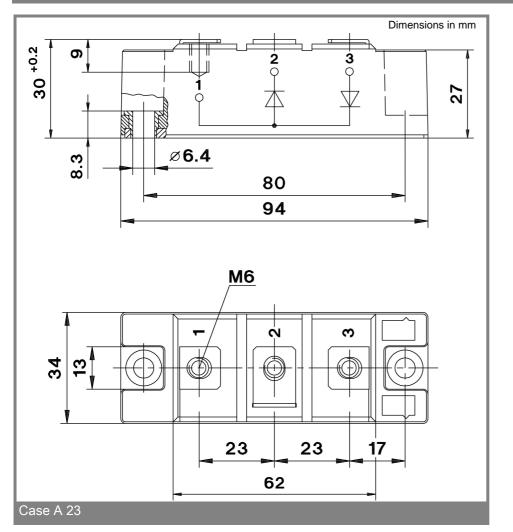








### SKKD 75F



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