## SKKD 60F



# SEMIPACK<sup>®</sup> 2

### **Fast Diode Modules**

#### SKKD 60F

#### **Features**

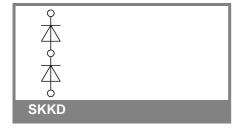
- Heat transfer through ceramic isolated metal baseplate
- Very short recovery times
- Soft recovery
- · Low switching losses
- Up to 1600 V peak inverse voltage
- UL recognized, file no. E 63 532

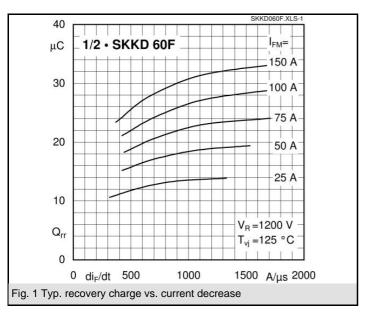
### **Typical Applications\***

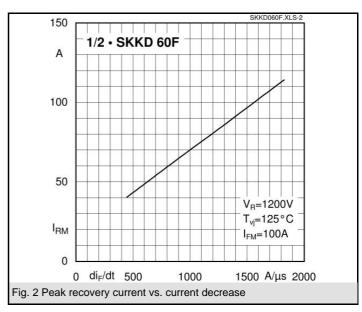
- Self-commutated inverters
- · DC choppers
- AC motor speed control
- inductive heating
- Uninterruptible power supplies
- Electronic welders
- General power switching applications

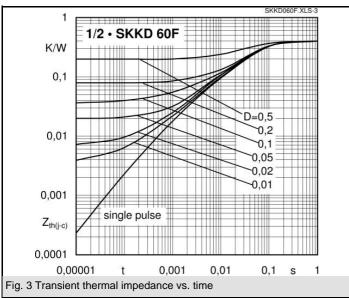
V <sub>RSM</sub>	V <sub>RRM</sub>	I <sub>FRMS</sub> = 110 A (maximum value for continuous operation)	
V	V	I <sub>FAV</sub> = 60 A (sin. 180; 50 Hz; T <sub>c</sub> = 83 °C)	
1700	1700	SKKD 60F17	

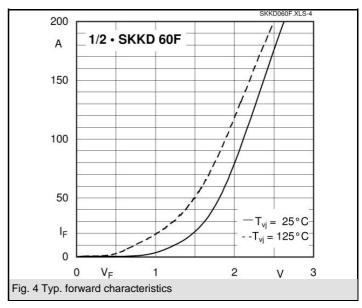
Symbol	Conditions	Values	Units
$I_{FAV}$	sin. 180; T <sub>c</sub> = 85 (100) °C	58 (49)	Α
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C; 10 ms	1000	Α
	T <sub>vi</sub> = 150 °C; 10 ms	900	Α
i²t	T <sub>vj</sub> = 25 °C; 8,3 10 ms	5000	A²s
	T <sub>vj</sub> = 150 °C; 8,3 10 ms	4000	A²s
V <sub>F</sub>	T <sub>vi</sub> = 25 °C; I <sub>F</sub> = 100 A	max. 2,7	V
$V_{(TO)}$	T <sub>vj</sub> = 150 °C	max. 1,5	V
r <sub>T</sub>	T <sub>vj</sub> = 150 °C	max. 9	mΩ
$I_{RD}$	$T_{vj} = 25  ^{\circ}\text{C};  V_{RD} = V_{RRM}$	max. 0,4	mA
$I_{RD}$	$T_{vj}$ = 125 °C; $V_{RD}$ = $V_{RRM}$	max. 25	mA
Q <sub>rr</sub>	T <sub>vi</sub> = 125 °C, I <sub>F</sub> = 60 A,	18	μC
I <sub>RM</sub>	-di/dt = 500 A/μs, V <sub>R</sub> = 1200 V	60	Α
t <sub>rr</sub>		800	ns
E <sub>rr</sub>		5	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 <b>+</b> 150	°C
T <sub>stg</sub>		- 40 <b>+</b> 125	°C
V <sub>isol</sub>	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	4800 / 4000	V~
M <sub>s</sub>	to heatsink	5 ± 15 %	Nm
$M_t$	to terminals	5 ± 15%	Nm
а		5 * 9,81	m/s²
m	approx.	160	g
Case		A 23	

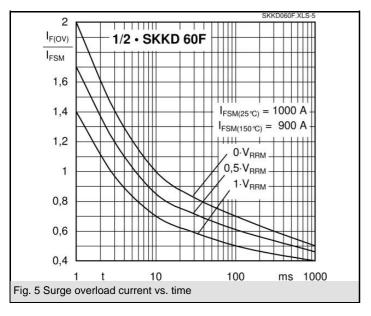




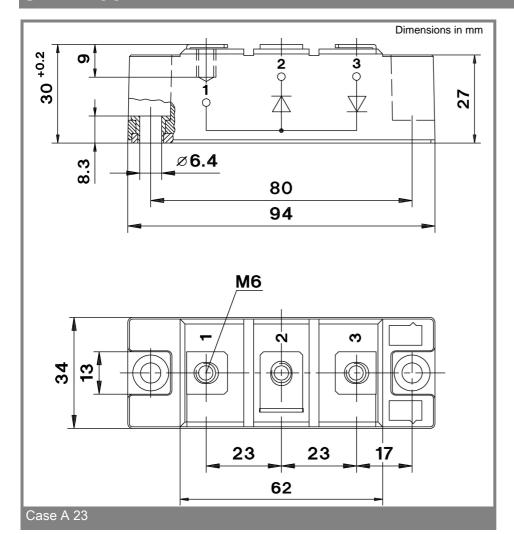


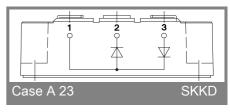






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<sup>\*</sup> The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support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