## 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**

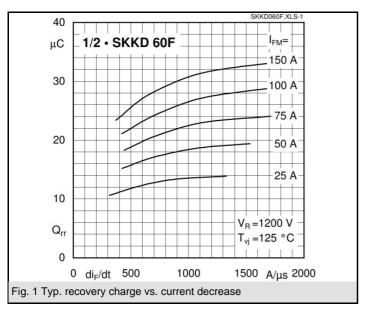
- Self-commutated inverters
- · DC choppers
- AC motor speed control
- inductive heating
- Uninterruptible power supplies
- · Electronic welders
- General power switching applications

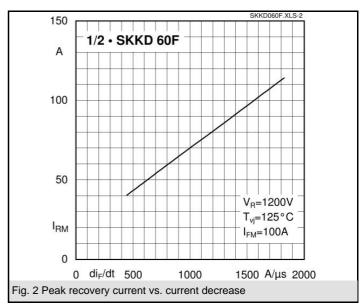
V <sub>RSM</sub>	V <sub>RRM</sub>	I <sub>FRMS</sub> = 110 A (maximum value for continuous operation)	
V	V	I <sub>FAV</sub> = 60 A (sin. 180; 50 Hz; T <sub>c</sub> = 83 °C)	
1700	1700	SKKD 60F17	

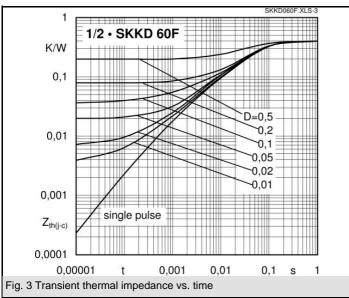
Symbol	Conditions	Values	Units
I <sub>FAV</sub>	sin. 180; T <sub>c</sub> = 85 (100) °C	58 (49)	Α
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C; 10 ms	1000	Α
	T <sub>vi</sub> = 150 °C; 10 ms	900	Α
i²t	T <sub>vj</sub> = 25 °C; 8,3 10 ms	5000	A²s
	T <sub>vj</sub> = 150 °C; 8,3 10 ms	4000	A²s
$V_{F}$	T <sub>vi</sub> = 25 °C; I <sub>F</sub> = 100 A	max. 2,7	V
$V_{(TO)}$	T <sub>vj</sub> = 150 °C	1,5	V
r <sub>T</sub>	$T_{vj} = 150  ^{\circ}C$	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
$T_{v_{j}}$		- 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~
$M_s$	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	

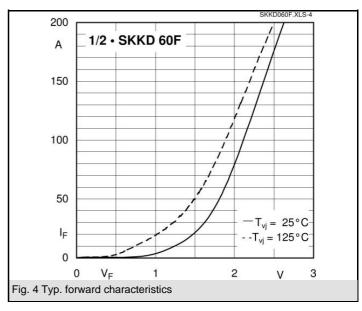


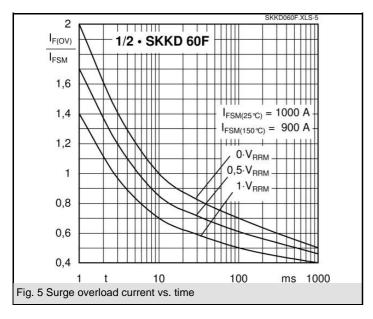
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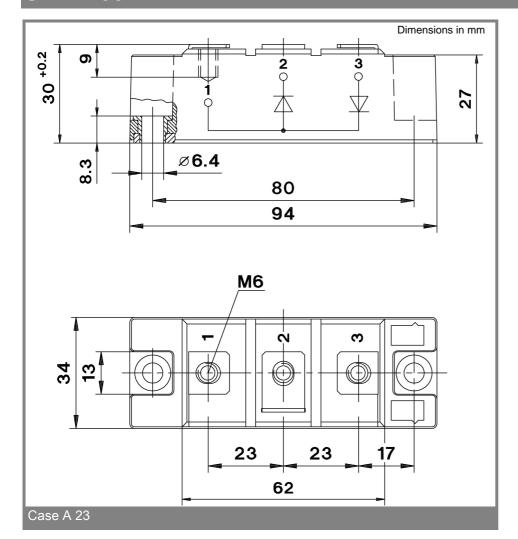


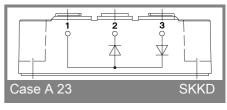






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