# **SKN 2F17**



### **Stud Diode**

Fast Recovery Rectifier Diode

SKN 2F17 SKR 2F17

#### **Features**

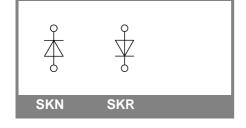
- · Small recovered charge
- Soft recovery
- Up to 1000 V reverse voltage
- Hermetic metal case with glass insulator
- Threaded stud ISO M5 or 10-32 UNF
- SKN: anode to stud SKR: cathode to stud

### **Typical Applications**

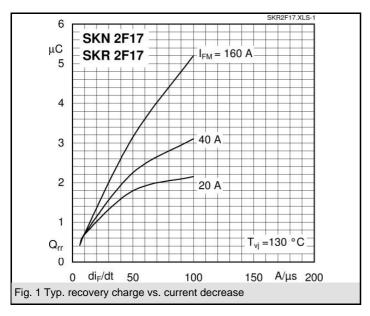
- Inverse diode for power transistor, GTO thyristor, asymmetric thyristor
- SMPS, inverters, choppers
- · for severe ambient conditions

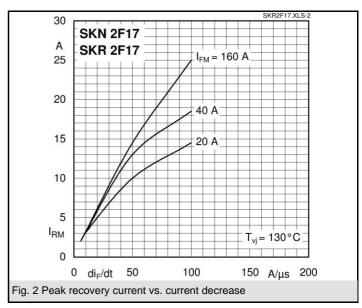
V <sub>RSM</sub>	$V_{RRM}$	I <sub>FRMS</sub> = 41 A (maximum value for continuous operation)		
V	V	I <sub>FAV</sub> = 17 A (sin. 180; 5000Hz; T <sub>c</sub> = 113 °C)		
400	400	SKN 2F17/04	SKR 2F17/04	
400	400	SKN 2F17/04UNF	SKR 2F17/04UNF	
600	600	SKN 2F17/06	SKR 2F17/06	
600	600	SKN 2F17/06UNF	SKR 2F17/06UNF	
800	800	SKN 2F17/08	SKR 2F17/08	
800	800	SKN 2F17/08UNF	SKR 2F17/08UNF	
1000	1000	SKN 2F17/10	SKR 2F17/10	
1000	1000	SKN 2F17/10UNF	SKR 2F17/10UNF	

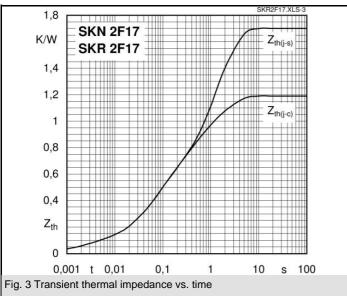
Symbol	Conditions	Values	Units
I <sub>FAV</sub>	sin. 180; T <sub>c</sub> = 85 (100) °C	26 (22)	Α
$I_{FAV}$	K5,5; T <sub>a</sub> = 45 °C; sin. 180; 5000 Hz	10	Α
I <sub>FSM</sub>	T <sub>vi</sub> = 25 °C; 10 ms	450	А
	T <sub>vi</sub> = 150 °C; 10 ms	380	Α
i²t	T <sub>vi</sub> = 25 °C; 8,3 10 ms	1000	A²s
	T <sub>vj</sub> = 150 °C; 8,3 10 ms	720	A²s
V <sub>F</sub>	T <sub>vi</sub> = 25 °C; I <sub>F</sub> = 50 A	max. 2,15	V
$V_{(TO)}$	T <sub>vi</sub> = 130 °C	max. 1,3	V
r <sub>T</sub>	$T_{vj} = 130  ^{\circ}\text{C}$	max. 12	mΩ
$I_{RD}$	$T_{vj} = 25  ^{\circ}C; V_{RD} = V_{RRM}$	max. 0,2	mA
$I_{RD}$	$T_{vj}$ = 130 °C, $V_{RD}$ = $V_{RRM}$	max. 16	mA
Q <sub>rr</sub>	T <sub>vi</sub> = 130 °C, I <sub>F</sub> = 50 A,	1	μC
I <sub>RM</sub>	-di/dt = 15 A/μs, V <sub>R</sub> = 30 V	4,5	Α
t <sub>rr</sub>		440	ns
E <sub>rr</sub>		-	mJ
R <sub>th(j-c)</sub>		1,2	K/W
R <sub>th(c-s)</sub>		0,5	K/W
T <sub>vj</sub>		- 40 <b>+</b> 150	°C
T <sub>stg</sub>		- 55 <b>+</b> 150	°C
V <sub>isol</sub>		-	V~
$M_s$	to heatsink	1,5	Nm
а		5 * 9,81	m/s²
m	approx.	7	g
Case		E7	

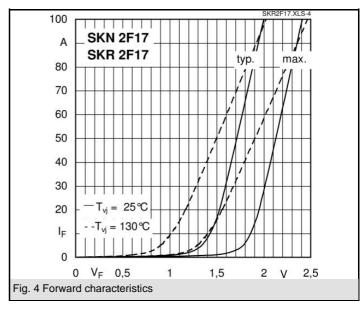


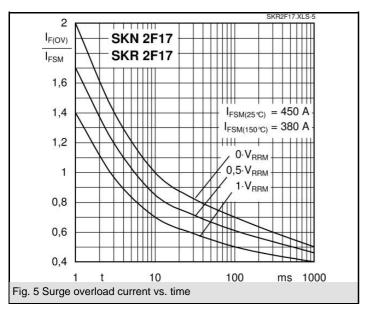
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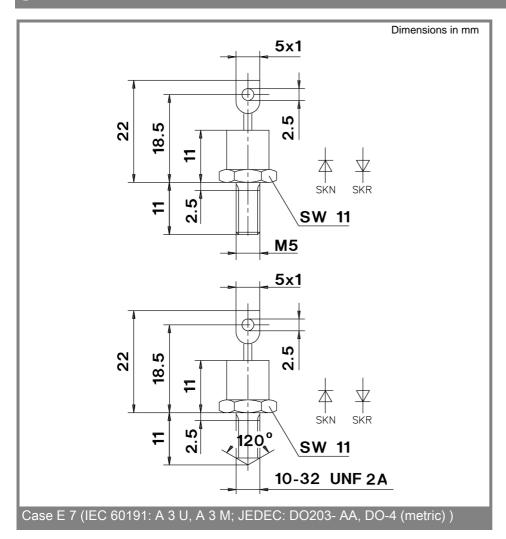












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