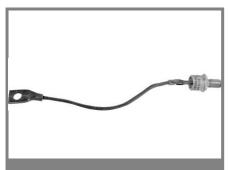
SKN 20



Stud Diode

Rectifier Diode

SKN 20 SKR 20

Features

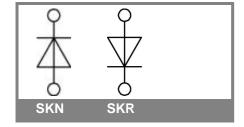
- Reverse voltages up to 1600 V
- Hermetic metal case with glass insulator
- Threaded stud ISO M6
- SKN: anode to stud, SKR: cathode to stud

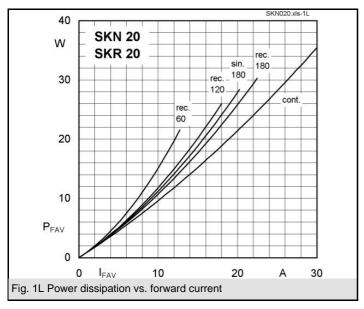
Typical Applications

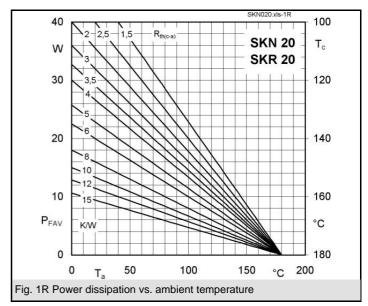
- All-purpose mean power rectifier diodes
- Cooling via metal plates or heatsinks
- Non-controllable and half-controllable rectifiers
- Free-wheeling diodes
- Recommended snubber network: RC: 0,05 μ F, 200 Ω (P $_{R}$ = 1 W), R $_{p}$ = 150 k Ω (P $_{R}$ = 4 W)

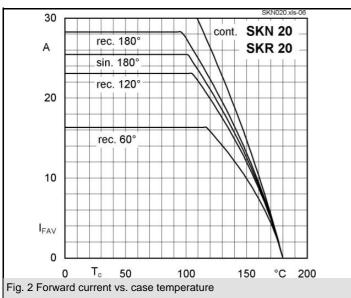
V_{RSM}	V_{RRM}	I _{FRMS} = 40 A (maximum value for continuous operation)		
V	V	I _{FAV} = 20 A (sin. 180 °; T _c = 125 °C)		
400	400	SKN 20/04	SKR 20/04	
800	800	SKN 20/08	SKR 20/08	
1200	1200	SKN 20/12	SKR 20/12	
1400	1400	SKN 20/14	SKR 20/14	
1600	1600	SKN 20/16	SKR 20/16	

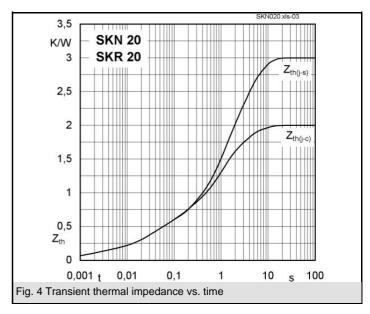
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 100 °C	25	Α
I _D	K 9; T _a = 45 °C; B2 / B6	20 / 29	Α
	K 3; T _a = 45 °C; B2 / B6	35 / 50	Α
I _{FSM}	T _{vi} = 25 °C; 10 ms	375	Α
	T _{vi} = 180 °C; 10 ms	320	Α
i²t	T _{vi} = 25 °C; 8,3 10 ms	700	A²s
	T _{vj} = 180 °C; 8,3 10 ms	510	A²s
V _F	T _{vi} = 25 °C; I _F = 60 A	max. 1,55	V
V _(TO)	T _{vi} = 180 °C	max. 0,85	V
r _T	T _{vi} = 180 °C	max. 11	mΩ
I_{RD}	$T_{vi} = 180 ^{\circ}\text{C}; V_{RD} = V_{RRM}$	max. 4	mA
Q_{rr}	$T_{vj} = 160 ^{\circ}\text{C}; - di_{F}/dt = 10 \text{A/}\mu\text{s}$	20	μC
R _{th(j-c)}		2	K/W
R _{th(c-s)}		1	K/W
T _{vj}		- 40 + 180	°C
T _{stg}		- 55 + 180	°C
V _{isol}		-	V~
M _s	to heatsink	2,0	Nm
а		5 * 9,81	m/s²
m	approx.	10	g
Case		E 9	

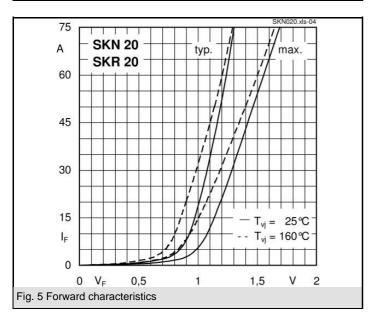


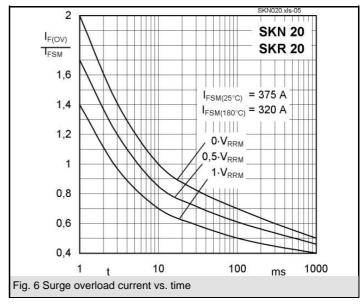


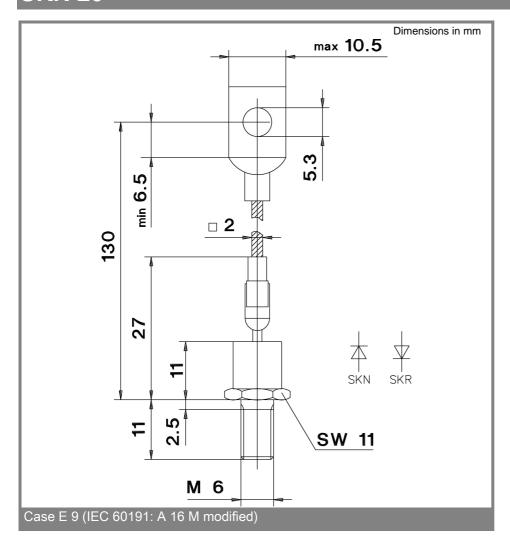












This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.