SKN 20

		- and p

Stu	a	D	0	ae	

Rectifier Diode

S	k	Ν	2	0

SKR 20

Features
i catures

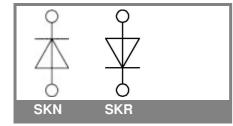
- Reverse voltages up to 1600 V
- Hermetic metal case with glass
 insulator
- Threaded stud ISO M6
- SKN: anode to stud, SKR: cathode to stud

Typical Applications*

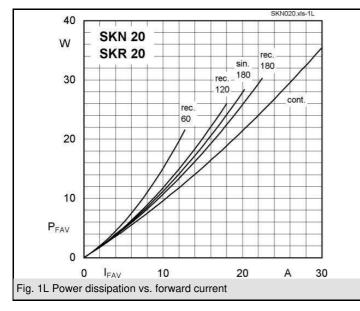
- All-purpose mean power rectifier diodes
- Cooling via metal plates or heatsinks
- Non-controllable and half-controllable rectifiers
- Free-wheeling diodes
- Recommended snubber network: RC: 0,05 μ F, 200 Ω (P _R = 1 W), R_p = 150 k Ω (P_R = 4 W)

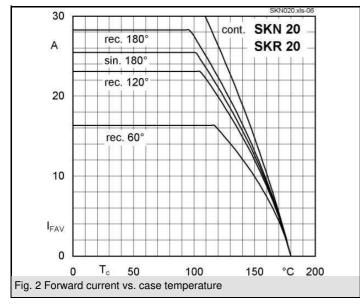
V _{RSM}	V _{RRM}	I _{FRMS} = 40 A (ma	aximum value for contin	nuous operation)
V	V	I _{FAV} = 2	20 A (sin. 180 °; T _c = 1	25 °C)
400	400	SKN 20/04	SKR 20/04	
800	800	SKN 20/08	SKR 20/08	
1200	1200	SKN 20/12	SKR 20/12	
1400	1400	SKN 20/14	SKR 20/14	
1600	1600	SKN 20/16	SKR 20/16	

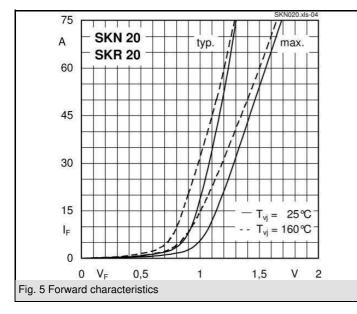
Symbol	Conditions	Values	Units
FAV	sin. 180; T _c = 100 °C	25	А
l _D	K 9; T _a = 45 °C; B2 / B6	20 / 29	А
_	K 3; T _a = 45 °C; B2 / B6	35 / 50	А
FSM	T _{vi} = 25 °C; 10 ms	375	A
	T _{vi} = 180 °C; 10 ms	320	А
²t	T _{vi} = 25 °C; 8,3 10 ms	700	A²s
	T _{vj} = 180 °C; 8,3 10 ms	510	A²s
/ _F	T _{vi} = 25 °C; I _F = 60 A	max. 1,55	V
V _(TO)	$T_{vi} = 180 \text{ °C}$	max. 0,85	V
Т	$T_{vi}^{i} = 180 \ ^{\circ}C$	max. 11	mΩ
RD	T_{vj}^{o} = 180 °C; V_{RD} = V_{RRM}	max. 4	mA
Q _{rr}	T _{vj} = 160 °C; - di _F /dt = 10 A/µs	20	μC
R _{th(j-c)}		2	K/W
R _{th(c-s)}		1	K/W
Г _{vj}		- 40 + 180	°C
Г _{stg}		- 55 + 180	°C
/ _{isol}		-	٧~
M _s	to heatsink	2,0	Nm
a		5 * 9,81	m/s²
n	approx.	11	g
Case		E 9	

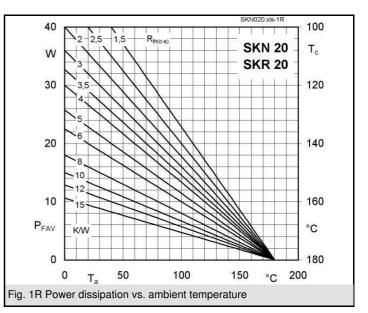


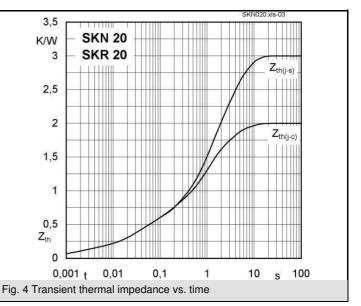


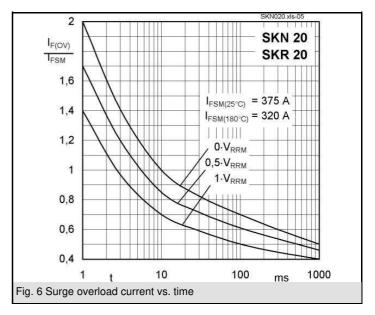




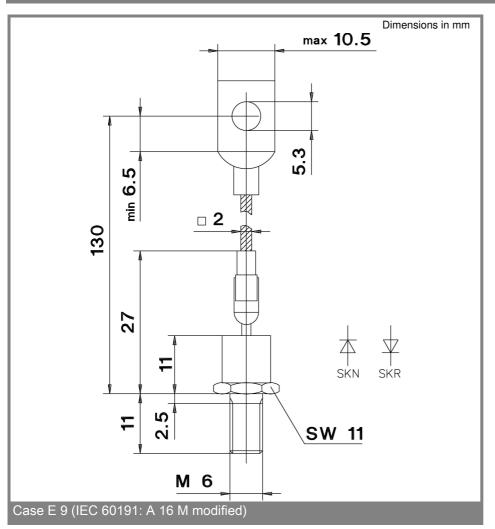








SKN 20



* 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.