SKN 320



Stud Diode

Rectifier Diode

SKN 320 SKR 320

Features

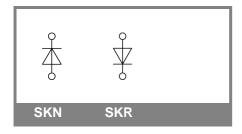
- Reverse voltages up to 1600 V
- Hermetic metal case with glass insulator
- Threaded stud ISO M24 x 1,5
- · SKN: anode to stud, SKR: cathode to stud

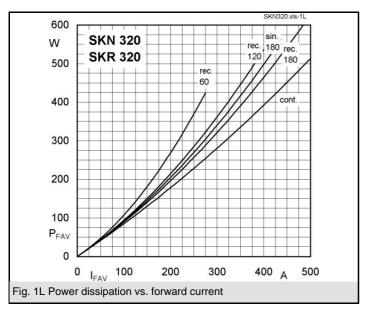
Typical Applications

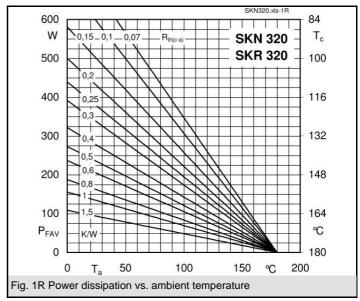
- All-purpose high power rectifier diodes
- Cooling via heatsinks
- · Non-controllable and half-controllable rectifiers
- · Free-wheeling diodes
- Recommended snubber network: RC: 1 μ F, 20 Ω (P_R = 2 W), R_p = 25 k Ω (P_R = 20 W)

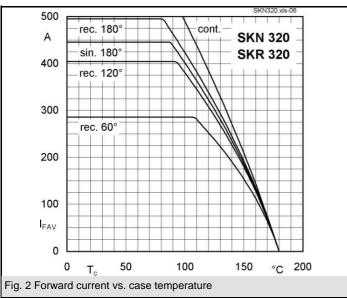
V _{RSM}	V_{RRM}	I _{FRMS} = 700 A (maximum value for continuous operation)		
V	V	I_{FAV} = 320 A (sin. 180; T_c = 125 °C)		
400	400	SKN 320/04	SKR 320/04	
800	800	SKN 320/08	SKR 320/08	
1200	1200	SKN 320/12	SKR 320/12	
1400	1400	SKN 320/14	SKR 320/14	
1600	1600	SKN 320/16	SKR 320/16	

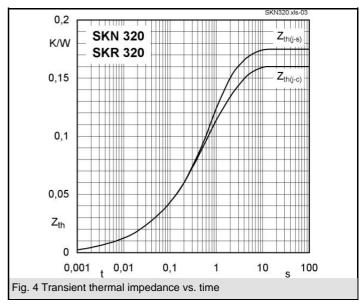
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 85 (100) °C	445 (420)	Α
I_D	P 1/200; T _a = 45 °C; B2 / B6	480 / 690	Α
	K 0,55F; T _a = 35 °C; B2 / B6	760 / 1080	Α
I _{FSM}	T _{vj} = 25 °C; 10 ms	9000	Α
	T _{vi} = 180 °C; 10 ms	8000	Α
i²t	T _{vj} = 25 °C; 8,3 10 ms	400000	A²s
	T _{vj} = 180 °C; 8,3 10 ms	300000	A²s
V _F	T _{vi} = 25 °C; I _F = 1000 A	max. 1,35	V
$V_{(TO)}$	T _{vi} = 180 °C	0,8	V
r _T	T _{vi} = 180 °C	0,45	mΩ
I_{RD}	$T_{vj} = 180 ^{\circ}\text{C}; V_{RD} = V_{RRM}$	max. 100	mA
Q_{rr}	$T_{vj} = 160 ^{\circ}\text{C}; - di_{F}/dt = 10 \text{A/}\mu\text{s}$	300	μC
R _{th(j-c)}		0,16	K/W
R _{th(c-s)}		0,015	K/W
T_{vj}		- 40 + 180	°C
T _{stg}	* * * * * * * * * * * * * * * * * * * *	- 55 + 180	°C
V _{isol}		-	V~
M_s	to heatsink	60	Nm
а		5 * 9,81	m/s²
m	approx.	500	g
Case		E 16	

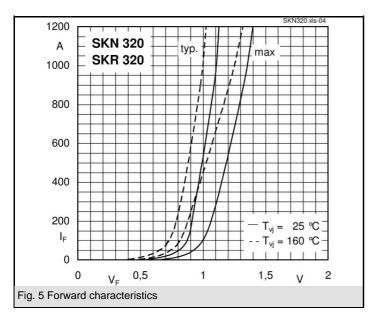


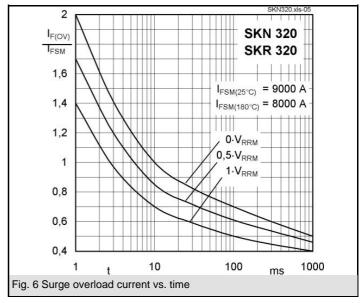


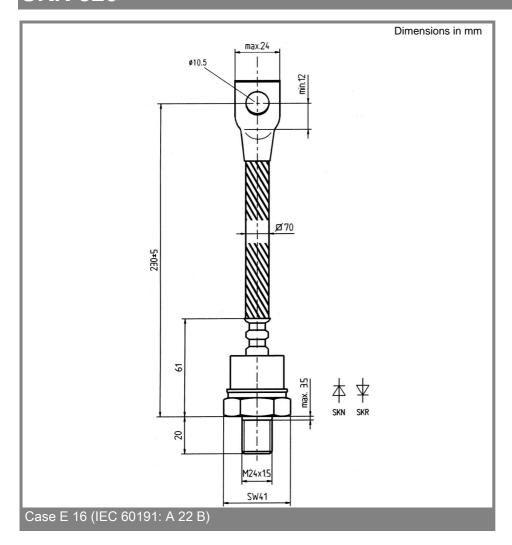












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