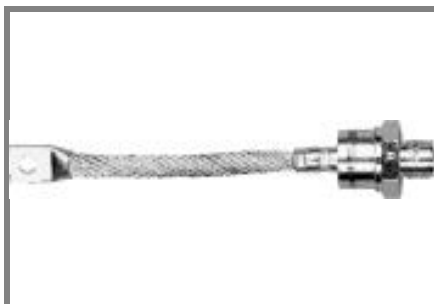




Stud Diode

Rectifier Diode

SKN 320

SKR 320

Features

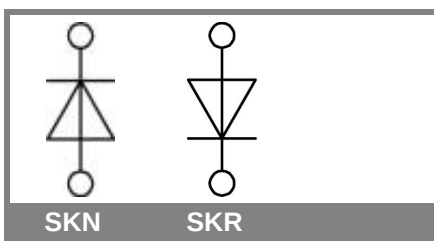
- Reverse voltages up to 1600 V
- Hermetic metal case with glass insulator
- Threaded stud ISO M24 x 1,5
- SKN: anode to stud,
SKR: cathode to stud

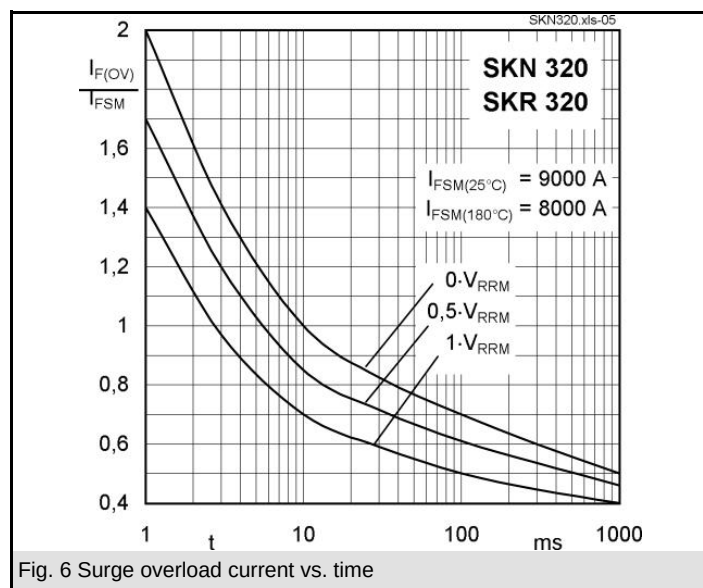
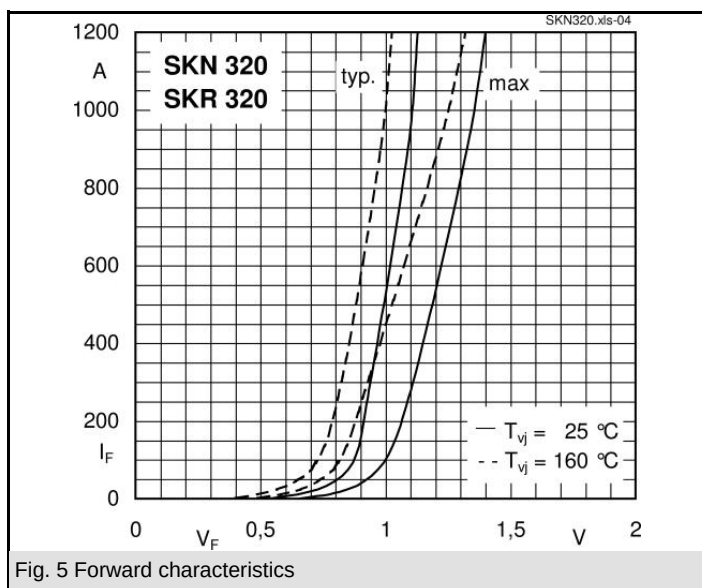
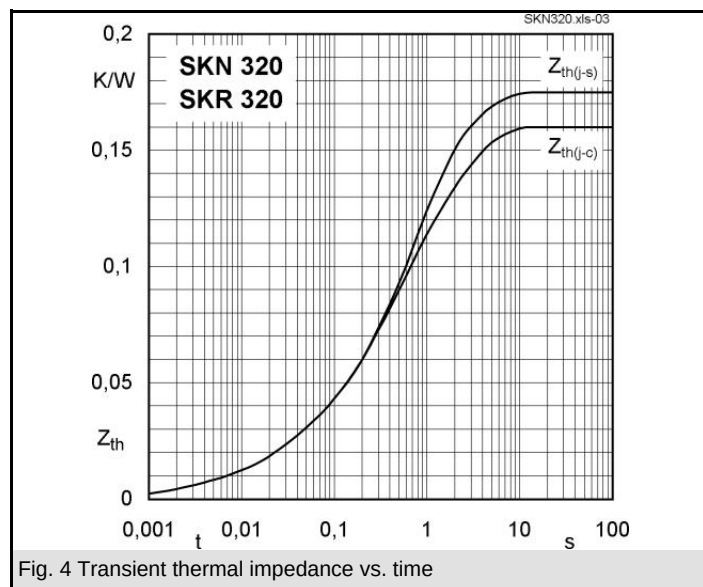
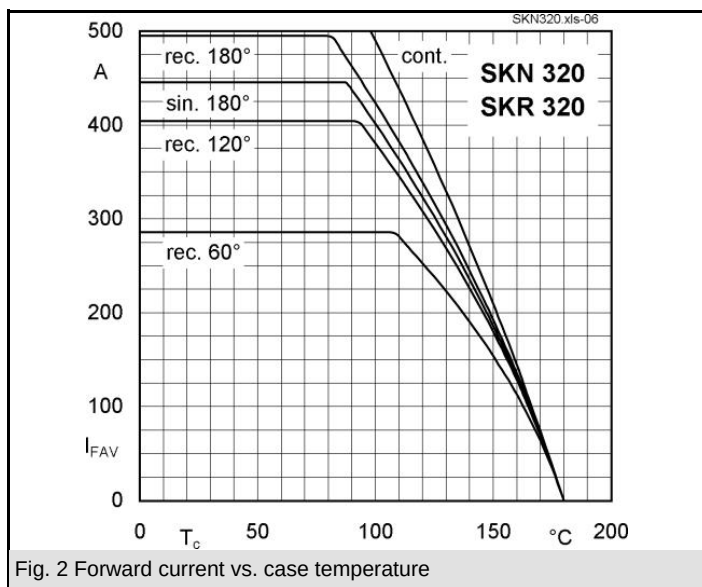
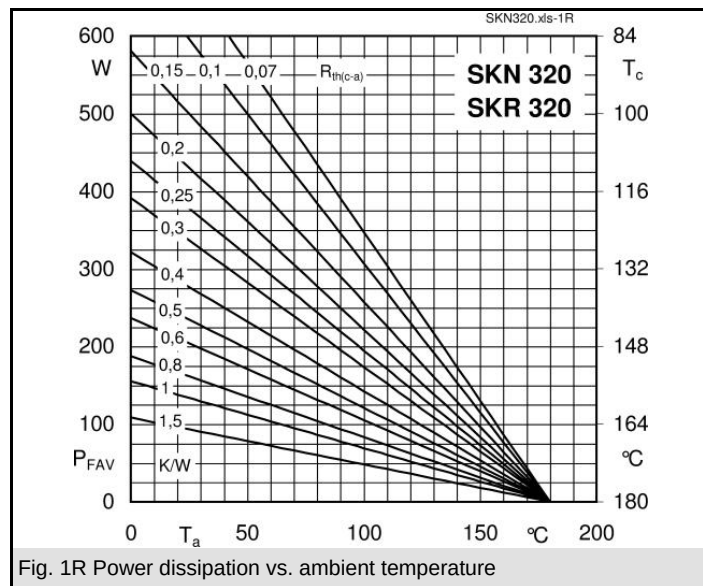
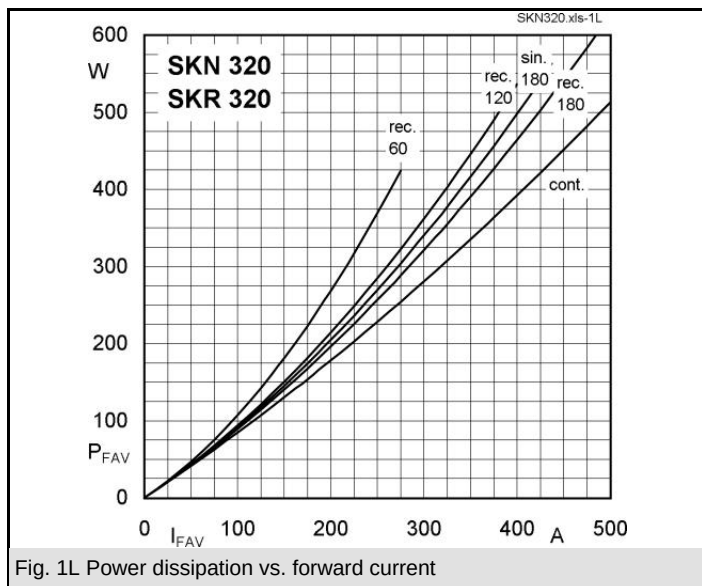
Typical Applications*

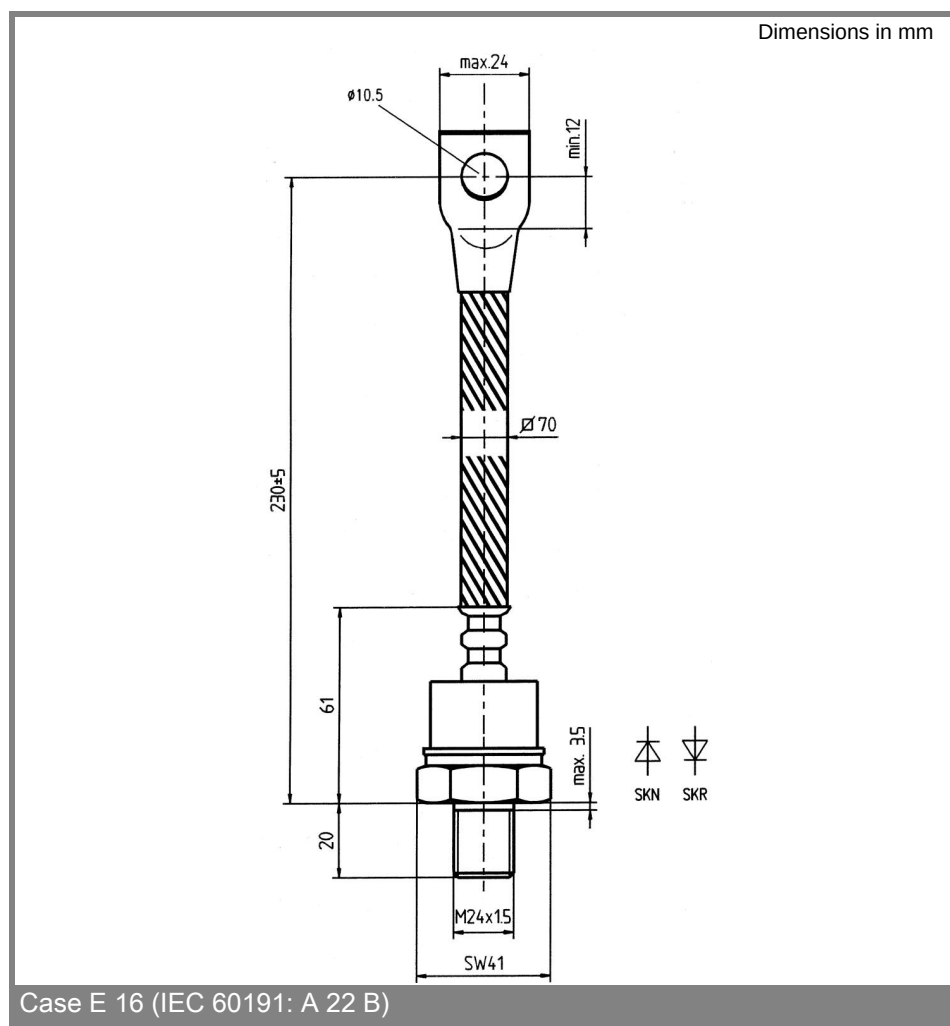
- All-purpose high power rectifier diodes
- Cooling via heatsinks
- Non-controllable and half-controllable rectifiers
- Free-wheeling diodes
- Recommended snubber network:
RC: 1 μ F, 20 Ω ($P_R = 2$ W),
 $R_p = 25$ k Ω ($P_R = 20$ W)

V_{RSM} V	V_{RRM} V	$I_{FRMS} = 700$ A (maximum value for continuous operation) $I_{FAV} = 320$ 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)	A
I_D	P 1/200; $T_a = 45$ °C; B2 / B6	480 / 690	A
	K 0,55F; $T_a = 35$ °C; B2 / B6	760 / 1080	A
I_{FSM}	$T_{vj} = 25$ °C; 10 ms	9000	A
	$T_{vj} = 180$ °C; 10 ms	8000	A
i^2t	$T_{vj} = 25$ °C; 8,3 ... 10 ms	400000	A ² s
	$T_{vj} = 180$ °C; 8,3 ... 10 ms	300000	A ² s
V_F	$T_{vj} = 25$ °C; $I_F = 1000$ A	max. 1,35	V
$V_{(TO)}$	$T_{vj} = 180$ °C	max. 0,8	V
r_T	$T_{vj} = 180$ °C	max. 0,45	m Ω
I_{RD}	$T_{vj} = 180$ °C; $V_{RD} = V_{RRM}$	max. 100	mA
Q_{rr}	$T_{vj} = 160$ °C; - $di_F/dt = 10$ A/ μ s	300	μ C
$R_{th(j-c)}$		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
a		5 * 9,81	m/s ²
m	approx.	500	g
Case		E 16	







* 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 staff.

EN - For pricing and availability in your local country please visit one of the below links:

DE - Informationen zu Preisen und Verfügbarkeit in Ihrem Land erhalten Sie über die unten aufgeführten Links:

FR - Pour connaître les tarifs et la disponibilité dans votre pays, cliquez sur l'un des liens suivants:

[SKN 320/16](#)

[SKR 320/16](#)

EN

This Datasheet is presented by
the manufacturer

DE

Dieses Datenblatt wird vom
Hersteller bereitgestellt

FR

Cette fiche technique est
présentée par le fabricant