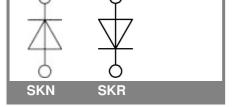
SKN 320

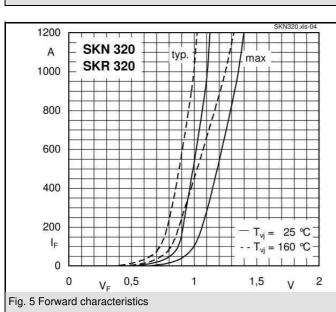
	V _{RSM}		V _{RRM}	I _{FRMS} = 700 A (n	naximum value for con	tinuous oper	ation)
	V		V		$I_{FAV} = 320 \text{ A} (\text{sin. 180; } T_c = 125 \text{ °C})$		
	400		400	SKN 320/04	SKR 320/04		
	800		800	SKN 320/08	SKR 320/08		
	1200		1200	SKN 320/12	SKR 320/12		
	1400		1400	SKN 320/14	SKR 320/14		
	1600		1600	SKN 320/16	SKR 320/16		
	Symbol Conditions				Valu	les	Units
	1	I _{FAV} sin. 180; T _c = 85 (10		00) °C	445 (420)		A
Stud Diode	I _D		$P 1/200; T_a = 45 °C; B2 / B6$		480 / 6	,	А
			0,55F; T _a = 35 °C			080	А
Rectifier Diode	I _{ESM}	I _{FSM} T _{vi} = 25 °C; 10 ms			9000		Α
				vi = 180 °C; 10 ms		8000	
	i²t	i ² t T _{vi} = 25		= 25 °C; 8,3 10 ms		400000	
		T _{vj}	Γ _{vj} = 180 °C; 8,3 10 ms		3000	300000	
SKN 320	V _F	V _F T _{vi} = 25 °C; I _F = 1000 A			max. 1	,35	V
SKR 320	V _(TO)				max. (0,8	V
SKN 320	r _T	$r_T = 18$		• 180 °C		max. 0,45	
	I _{RD}	T _{vi}	vi = 180 °C; V _{RD} = V _{RRM}		max. 1	max. 100	
	Q _{rr}	Q _{rr} T _{vj} =		= 160 °C; - di _F /dt = 10 A/µs		300	
	R _{th(j-c)}				0,16	6	K/W
	R _{th(c-s)}				0,01	5	K/W
Features	T _{vj}				- 40 +	· 180	°C
Reverse voltages up to 1600 V	T _{stg}				- 55 +	· 180	°C
Hermetic metal case with glass	V _{isol}				-		٧~
insulator			o heatsink		60	60	
• Threaded stud ISO M24 x 1,5	a	-			5 * 9,	81	m/s²
SKN: anode to stud,	m a		approx.		500)	g
SKR: cathode to stud	Case				E 16	6	
Typical Applications*							
							1

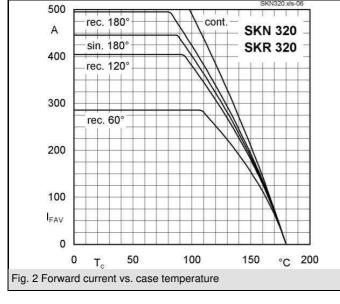
- All-purpose high power rectifier diodes
- Cooling via heatsinks
- Non-controllable and half-controllable rectifiers
- Free-wheeling diodes
- Recommended snubber network: RC: 1 μF, 20 Ω (P_R = 2 W), R_p = 25 kΩ (P_R = 20 W)

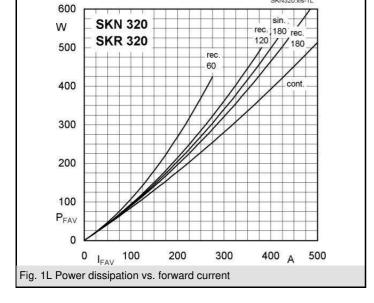


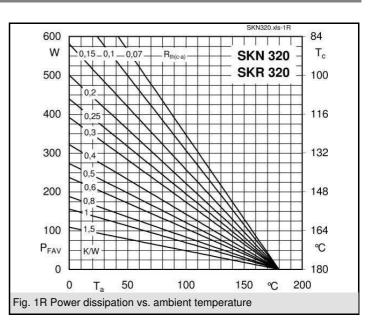


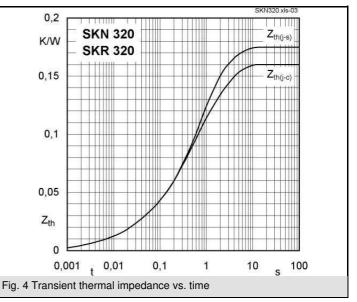
05-04-2004 SCT

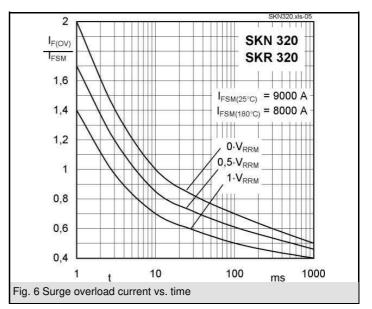




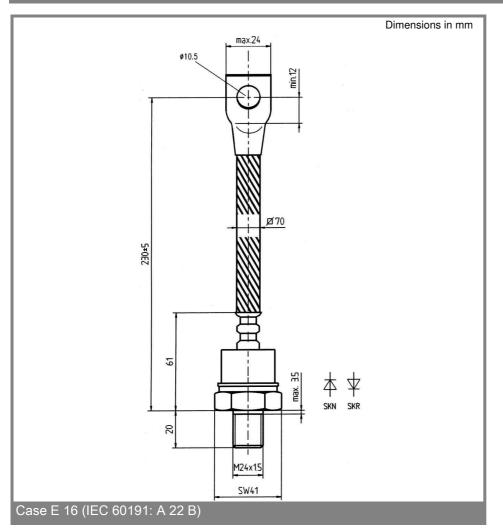








SKN 320



* 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.