



Stud Diode

Rectifier Diode

SKN 100
SKR 100

Features

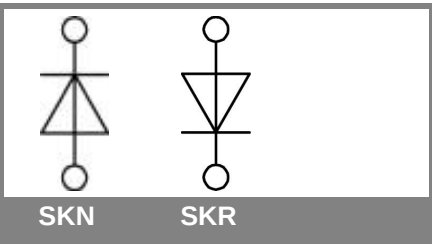
- Reverse voltages up to 1800 V
- Hermetic metal case with glass insulator
- Threaded stud ISO M12, M16 x 1,5
- SKN: anode to stud, SKR: cathode to stud

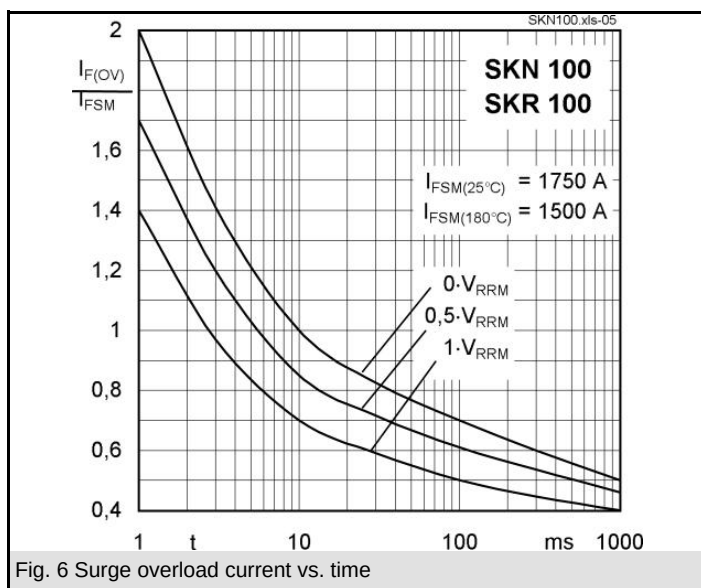
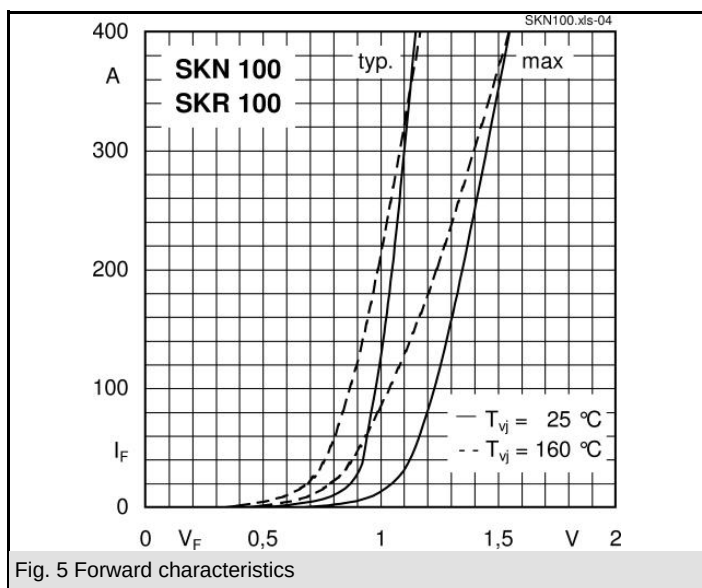
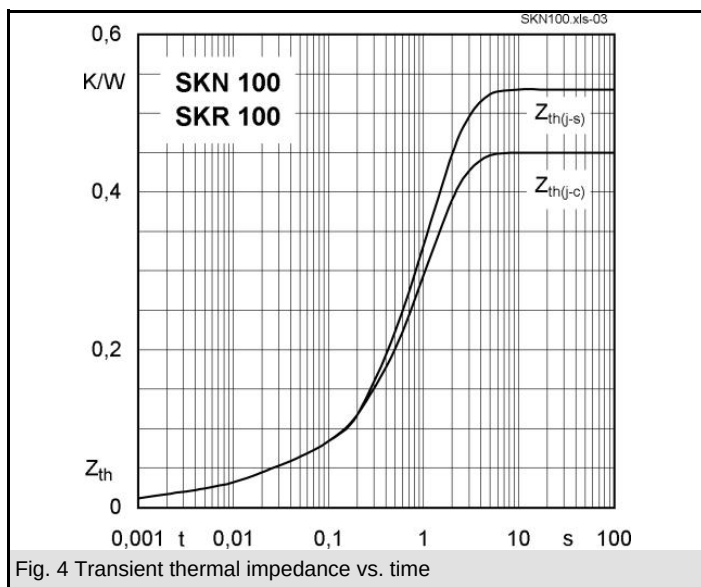
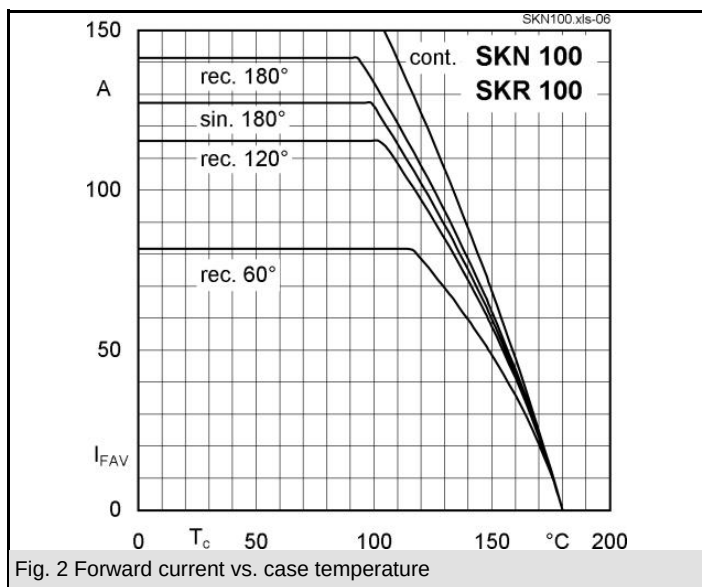
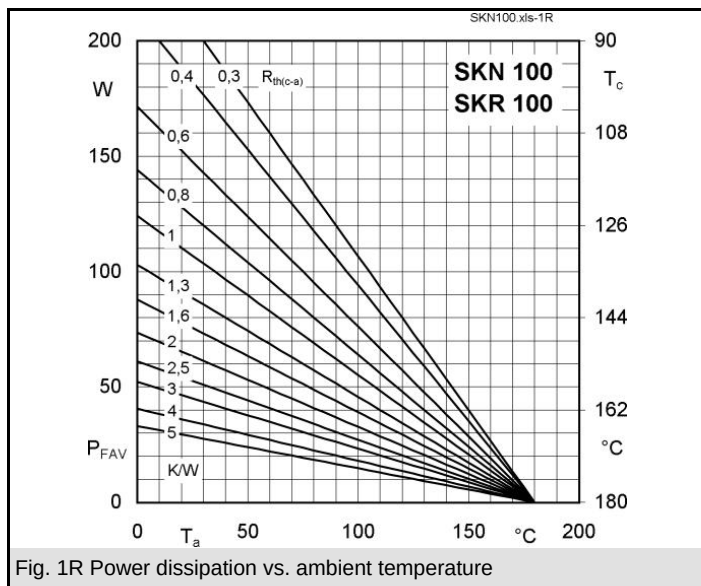
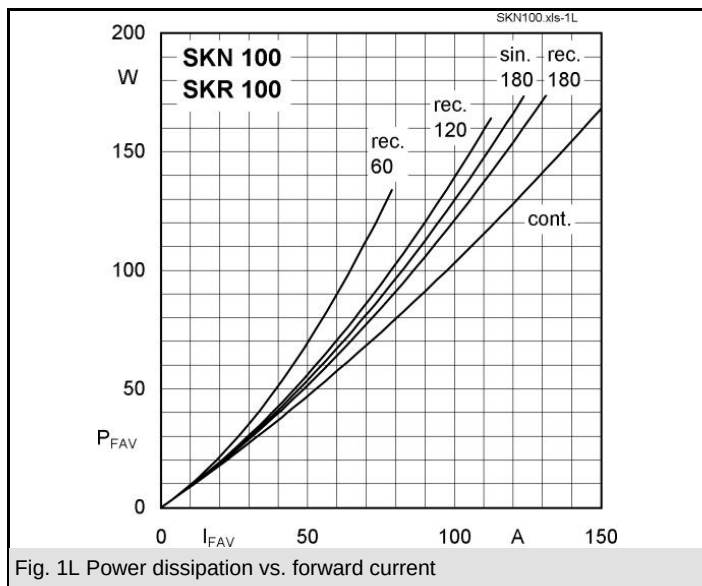
Typical Applications

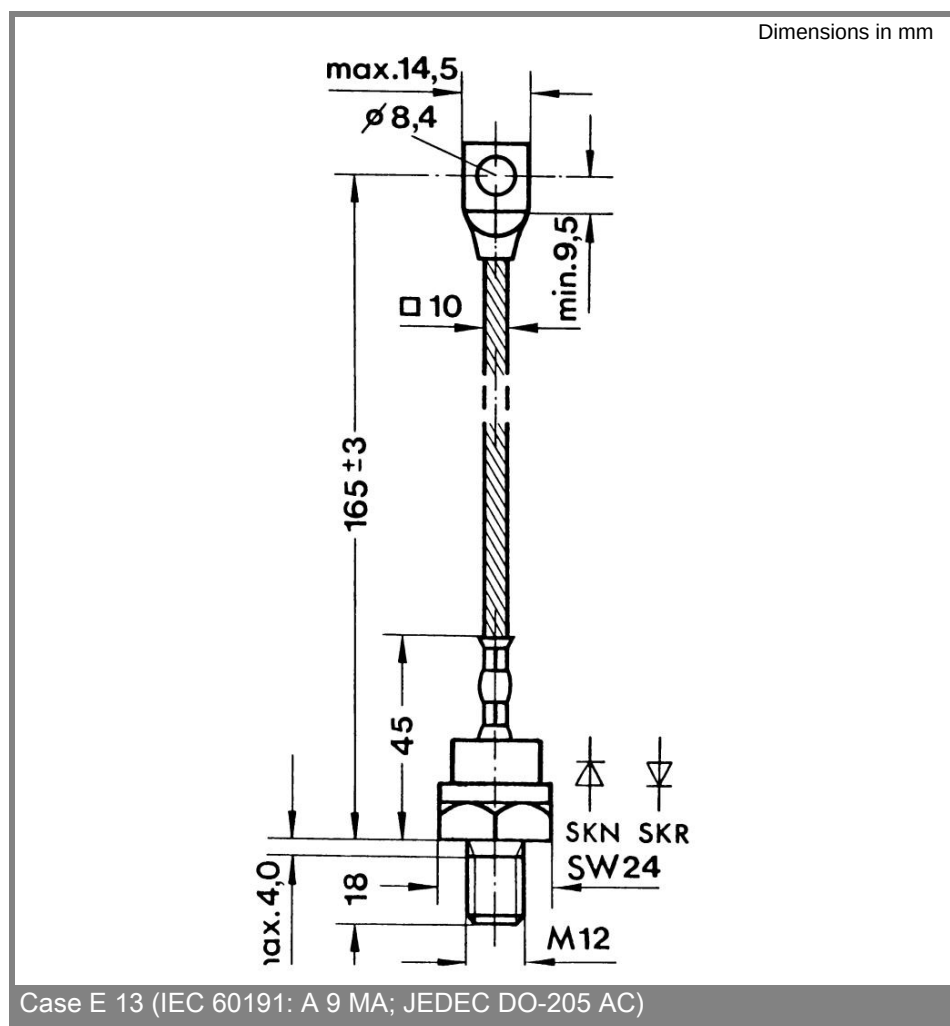
- All-purpose mean power rectifier diodes
- Cooling via heatsinks
- Non-controllable and half-controllable rectifier
- Free-wheeling diodes
- Recommended snubber network:
RC: 0,25 µF, 50 Ω, (P_R = 2 W),
R_P = 50 kΩ (P_R = 20 W)

V_{RSM} V	V_{RRM} V	$I_{FRMS} = 200\text{ A}$ (maximum value for continuous operation) $I_{FAV} = 100\text{ A}$ (sin. 180; $T_c = 120\text{ °C}$)		
		SKN 100/04	SKR 100/04	
400	400	SKN 100/08	SKR 100/08	
800	800	SKN 100/12	SKR 100/12	
1200	1200	SKN 100/14	SKR 100/14	
1400	1400	SKN 100/16	SKR 100/16	
1600	1600	SKN 100/18	SKR 100/18	
1800	1800			

Symbol	Conditions	Values	Units
I_{FAV}	sin. 180; $T_c = 100\text{ °C}$	125	A
I_D	K 1,1; $T_a = 45\text{ °C}$; B2 / B6	140 / 204	A
	K 1,1F; $T_a = 35\text{ °C}$; B2 / B6	240 / 336	A
I_{FSM}	$T_{vj} = 25\text{ °C}$; 10 ms	1750	A
	$T_{vj} = 180\text{ °C}$; 10 ms	1500	A
i^2t	$T_{vj} = 25\text{ °C}$; 8,3 ... 10 ms	15000	A²s
	$T_{vj} = 180\text{ °C}$; 8,3 ... 10 ms	11500	A²s
V_F	$T_{vj} = 25\text{ °C}$; $I_F = 400\text{ A}$	max. 1,55	V
$V_{(TO)}$	$T_{vj} = 180\text{ °C}$	max. 0,85	V
r_T	$T_{vj} = 180\text{ °C}$	max. 1,8	mΩ
I_{RD}	$T_{vj} = 180\text{ °C}$; $V_{RD} = V_{RRM}$	max. 15	mA
Q_{rr}	$T_{vj} = 160\text{ °C}$; $-di_F/dt = 10\text{ A/μs}$	100	μC
$R_{th(j-c)}$		0,45	K/W
$R_{th(c-s)}$		0,08	K/W
T_{vj}		- 40 ... + 180	°C
T_{stg}		- 55 ... + 180	°C
V_{isol}		-	V~
M_s	to heatsink	10	Nm
a		5 * 9,81	m/s²
m	approx.	100	g
Case		E 13	







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