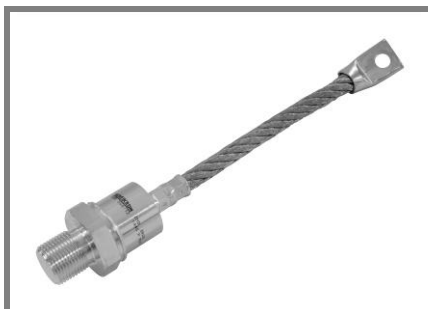


SKN 300



Stud Diode

Rectifier Diode

SKN 300
SKR 300

Preliminary data

Features

- Reverse voltages up to 1600 V
- Hermetic metal cases with glass insulator
- Threaded stud M16 x 1,5 mm. Also 3/4"-16 UNF 2A and M20 x 1,5 mm options.
- **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: 1,0 μ F, 20 Ω ($P_R = 2W$),
 R_p : 25 K Ω ($P_R = 20 W$)

Notes:

for 3/4"-16 UNF thread version
add UNF and for M20 x 1,5 mm
thread version add M20 at
description's end.
(e.g. SKR 300/04 M20)

V_{RSM} V	V_{RRM} V	$I_{FRMS} = 500 A$ (maximum value for continuous operation) $I_{FAV} = 300 A$ (sin. 180; $T_c = 124^\circ C$)	
400	400	SKN 300/04	SKR 300/04
800	800	SKN 300/08	SKR 300/08
1200	1200	SKN 300/12	SKR 300/12
1600	1600	SKN 300/16	SKR 300/16

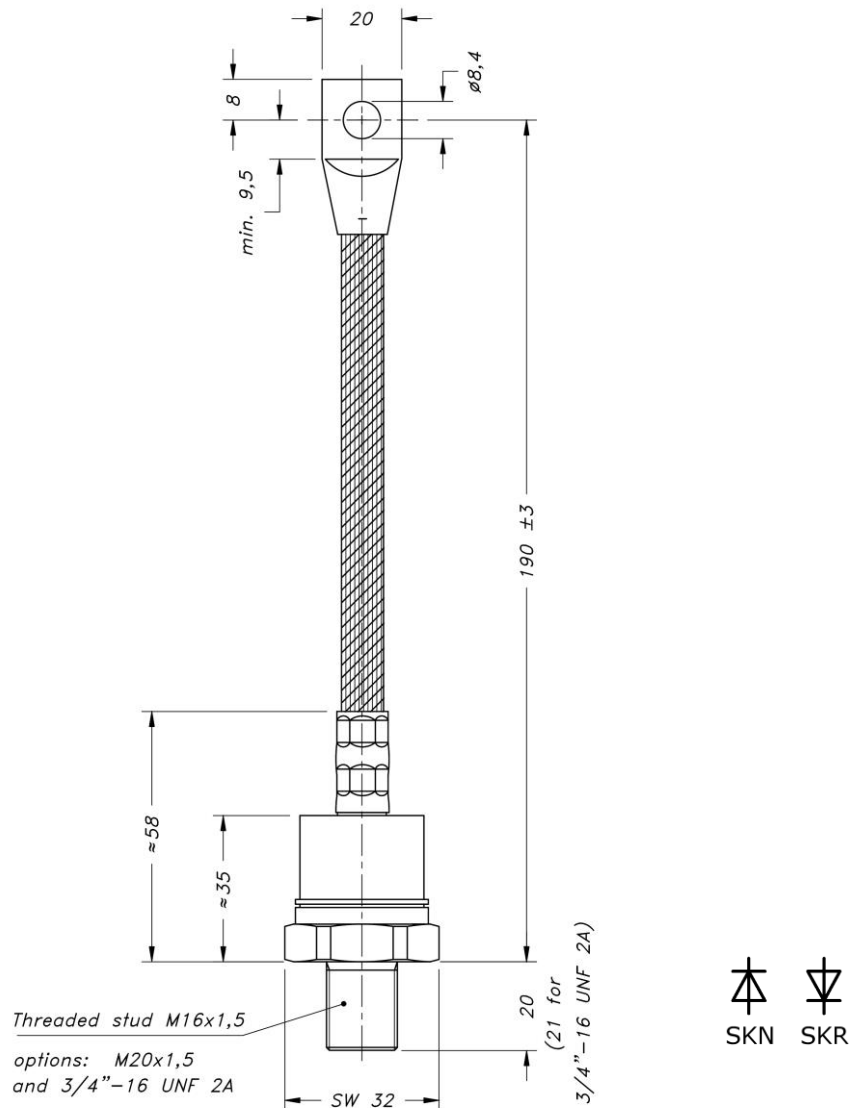
Symbol	Condition	Values	Units
I_{FAV}	sin. 180 ; $T_c = 135 (120)^\circ C$	255 (315)	A
I_{FSM}	$T_{vj} = 25^\circ C$; 8,33 ms	6500	A
i^2t	$T_{vj} = 180^\circ C$; 8,33 ms	5400	A
	$T_{vj} = 25^\circ C$; 8,3...10 ms	211000	A ² s
	$T_{vj} = 180^\circ C$; 8,3...10 ms	145000	A ² s
V_F	$T_{vj} = 25^\circ C$, $I_F = 800 A$	max. 1,4	V
$V_{(TO)}$	$T_{vj} = 160^\circ C$	max. 0,80	V
r_T	$T_{vj} = 160^\circ C$	max. 0,6	m Ω
I_{RD}	$T_{vj} = 180^\circ C$; $V_R = V_{RRM}$	max. 60	mA
Q_{rr}	$T_{vj} = 160^\circ C$, $-di_F/dt = 10 A/\mu s$	200	μC
$R_{th(j-c)}$		0,15	K/W
$R_{th(c-s)}$		0,03	K/W
T_{vj}		-40...+180	$^\circ C$
T_{stg}		-55...+180	$^\circ C$
V_{isol}		-	V~
M_s	to heatsink (SI units)	30	Nm
	to heatsink (US units)	270	lb.in.
a		5 * 9,81	m/s ²
m	approx.	250	g
Case		E 15	



SKN



SKR



Case E15 (IEC 60191: A 15 M; JEDEC: DO-205 AB)

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