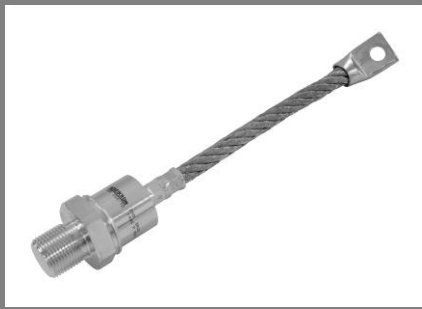


SKN 300



Stud Diode

V_{RSM} V	V_{RRM} V	$I_{FRMS} = 500$ A (maximum value for continuous operation) $I_{FAV} = 300$ A (sin. 180; $T_c = 124$ °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

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 ($P_R = 2$ W),
 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)

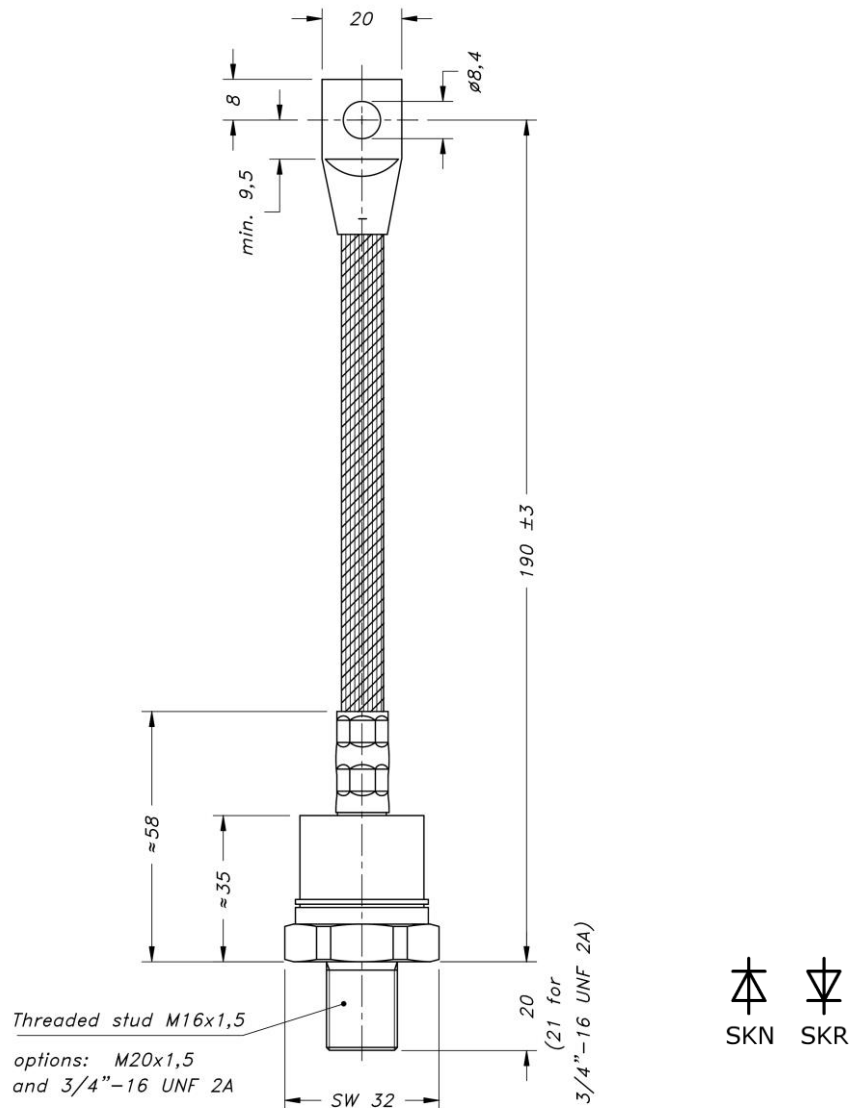
Symbol	Condition	Values	Units
I_{FAV}	sin. 180 ; $T_c = 135$ (120) °C	255 (315)	A
I_{FSM}	$T_{vj} = 25^\circ$ C ; 8,33 ms	6500	A
i^2t	$T_{vj} = 180^\circ$ C ; 8,33 ms	5400	A
	$T_{vj} = 25^\circ$ C ; 8,3...10 ms	211000	A ² s
V_F	$T_{vj} = 25^\circ$ C, $I_F = 800$ A	max. 1,4	V
	$T_{vj} = 160^\circ$ C	max. 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/ μ s	200	μ C
$R_{th(j-c)}$		0,15	K/W
$R_{th(c-s)}$		0,03	K/W
T_{vj}		-40...+180	°C
T_{stg}		-55...+180	°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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