# SKN 390, SKR 390



V <sub>RSM</sub>	V <sub>RRM</sub>	$I_{FRMS}$ = 620 A (maximum value for continuous operation)	
V	V	$I_{FAV}$ = 395 A (sin. 180; T <sub>c</sub> = 116 °C)	
400	400	SKN 390/04	SKR 390/04
800	800	SKN 390/08	SKR 390/08
1200	1200	SKN 390/12	SKR 390/12
1600	1600	SKN 390/16	SKR 390/16

Stud Diode

# Rectifier Diode

SKN 390 SKR 390

# 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 а

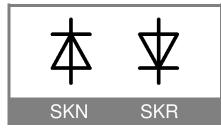
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Case

- Cooling via heatsinks
- Non-controllable and halfcontrollable rectifiers
- Free-wheeling diodes
- Recommended snubber network: RC: 1,0  $\mu$ F, 20  $\Omega$  (P<sub>R</sub> = 2W), R<sub>p</sub>: 25 K $\Omega$  (P<sub>R</sub> = 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 390/04 M20)



Symbol	Condition	Values	Units
I <sub>FAV</sub>	sin. 180 ; T <sub>C</sub> = 116 (125) <sup>o</sup> C	395 (355)	А
I <sub>FSM</sub> i <sup>2</sup> t	$\begin{array}{l} T_{vi} = 25^{\circ} \ C \ ; \ 10 \ ms \\ T_{vi} = 180^{\circ} \ C \ ; \ 10 \ ms \\ T_{vi} = 25^{\circ} \ C \ ; \ 8,310 \ ms \\ T_{vi} = 180^{\circ} \ C \ ; \ 8,310 \ ms \end{array}$	9000 8000 405000 320000	$ \begin{array}{c} A \\ A^2 s \\ A^2 s \\ A^2 s \end{array} $
$\begin{array}{c} V_{F} \\ V_{(TO)} \\ r_{T} \\ I_{RD} \\ Q_{rr} \end{array}$	$ \begin{array}{l} T_{vj} = 25^{\circ} \ C, \ I_F = 1000 \ A \\ T_{vj} = 180^{\circ} \ C \\ T_{vj} = 180^{\circ} \ C \\ T_{vj} = 180^{\circ} \ C \ ; \ V_R = V_{RRM} \\ T_{vi} = 160^{\circ} C, \ -di_F/dt = 10 \ A/\mu s \end{array} $	max. 1,35 max. 0,80 max. 0,45 max. 90 250	V V mΩ mA μC
R <sub>th(j-c)</sub> R <sub>th(c-s)</sub> T <sub>vi</sub> T <sub>stg</sub>		0,13 0,03 -40+180 -55+180	K/W K/W °C °C
V <sub>isol</sub> M <sub>s</sub>	to heatsink (SI units) to heatsink (US units)	- 30 270	V~ Nm Ib.in.

approx.

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m/s<sup>2</sup>

g

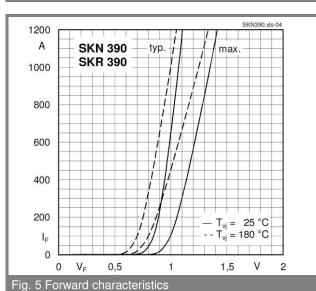
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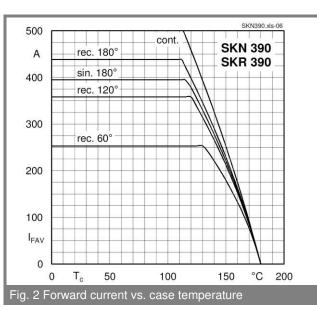
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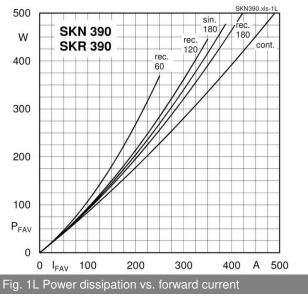
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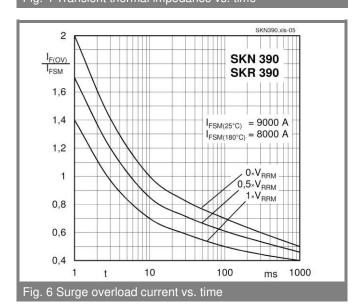
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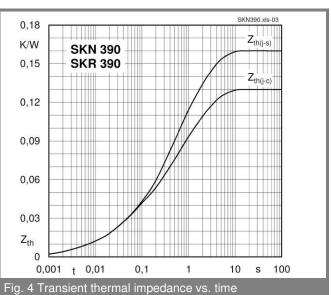


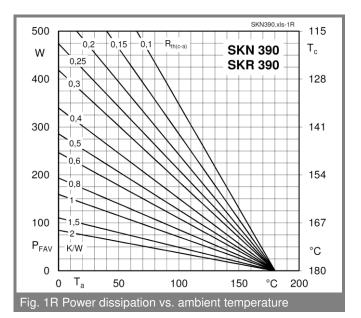




SKN 390, SKR 390

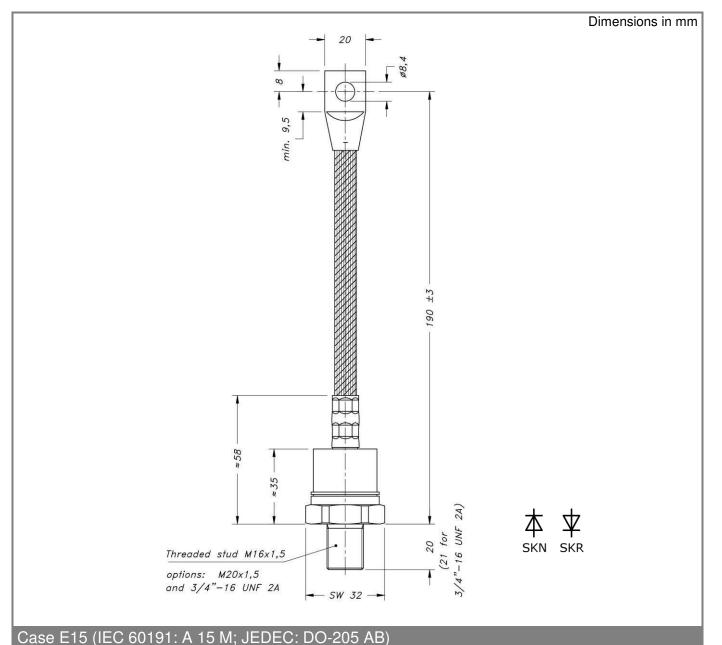






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# SKN 390, SKR 390



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