# SKN 262, SKR 262



## Stud Diode

## **Rectifier Diode**

SKN 262 SKR 262

#### **Features**

- Reverse voltages up to 2800 V
- Hermetic metal case with ceramic insulator with extra-long creepage distances
- Threaded stud ISO M16 x1,5mm
- Also available with threaded stud 3/4"-16 UNF 2A (e.g. SKN 262/24 UNF)

SKN: anode to studSKR: cathode to stud

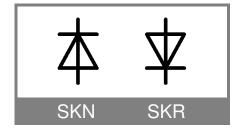
### **Typical Applications \***

- High voltage rectifier diode, especially for traction applications
- Cooling via heatsinks
- Non-controllable and halfcontrollable rectifiers
- Free-wheeling diodes
- Recommended snubber network:

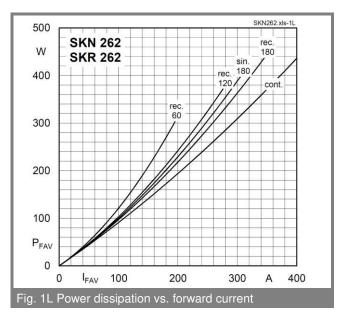
RC: 1,0  $\mu$ F, 20  $\Omega$  (PR = 2W), Rp: 25 K $\Omega$  (PR = 20 W)

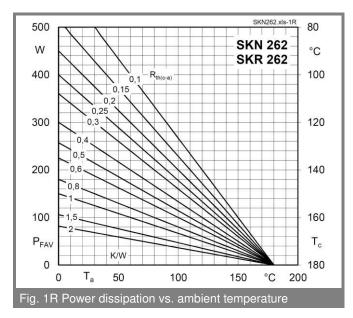
V <sub>RSM</sub>	V <sub>RRM</sub>	$I_{FRMS}$ = 500 A (maximum value for continuous operation) $I_{FAV}$ = 260 A (sin. 180; $T_c$ = 119 $^{\circ}C$ )		
2000	2000	SKN 262/20	SKR 262/20	
2400	2400	SKN 262/24	SKR 262/24	
2800	2800	SKN 262/28	SKR 262/28	

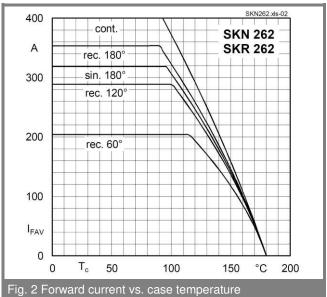
Symbol	Condition	Values	Units
I <sub>FAV</sub>	sin. 180 ; T <sub>C</sub> = 100 (125) <sup>o</sup> C	320 (240)	Α
I <sub>D</sub>	K 0,55; $T_a = 45 {}^{\circ}\text{C}$ ; B2 / B6	340 / 48Ó	Α
	K 0,55F; $T_a = 35 {}^{\circ}\text{C}$ ; B2 / B6	620 / 840	Α
I <sub>FSM</sub>	$T_{vi} = 25^{\circ} \text{ C}$ ; 10 ms	6000	Α
	$T_{vj} = 180^{\circ} C$ ; 10 ms	5000	A
i <sup>2</sup> t	$T_{vj} = 25^{\circ} C$ ; 8,310 ms	180000	$A^2$ s
	$T_{vi} = 180^{\circ} \text{ C}$ ; 8,310 ms	125000	A <sup>2</sup> s
$V_{F}$	$T_{vj} = 25^{\circ} C$ , $I_F = 750 A$	max. 1,4	V
$V_{(TO)}$	$T_{vi} = 180^{\circ} C$	max. 0,85	V
r <sub>T</sub>	$T_{vj} = 180^{\circ} C$	max. 0,6	mΩ
I <sub>RD</sub>	$T_{vi} = 180^{\circ} C$ ; $V_R = V_{RRM}$	max. 60	mA
Q <sub>rr</sub>	$T_{vi} = 160^{\circ}C$ , $-di_F/dt = 10 \text{ A/}\mu\text{s}$	typ. 200	μC
R <sub>th(i-c)</sub>		0,2	K/W
$R_{th(c-s)}$		0,03	K/W
$T_{vj}$		-40+180	°C
T <sub>stg</sub>		-55+180	°C
$V_{isol}$		-	V~
$M_s$	to heatsink (SI units)	30	Nm
	to heatsink ( US units )	270	lb.in.
а		5 * 9,81	m/s <sup>2</sup>
m	approx.	260	g
Case			

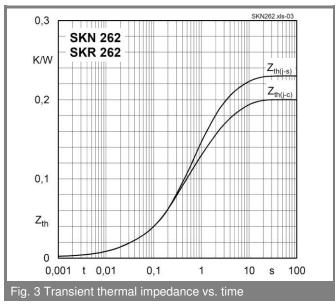


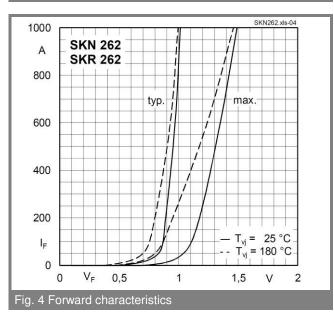
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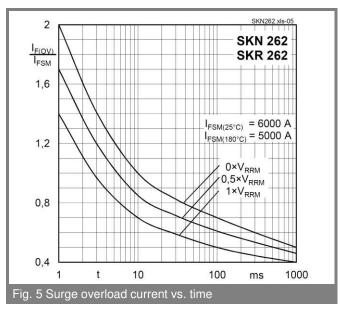


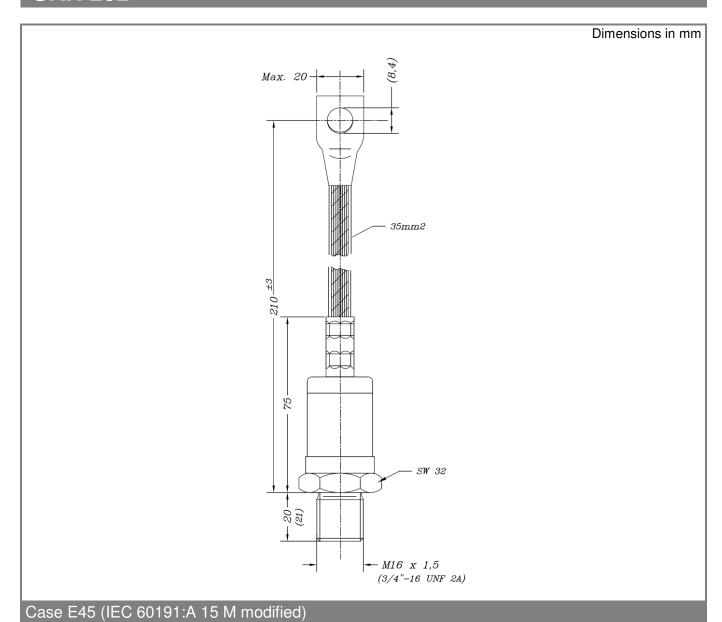












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