

SKN 86, SKR 86



Stud Diode

Rectifier Diode

SKN 86
SKR 86

Target datasheet

Features

- Reverse voltages up to 1600 V
- Hermetic metal case with glass insulator
- Threaded studs ISO M8 or 1/4" 28 UNF-2A
- **SKN:** anode to stud
- **SKR:** cathode to stud

Typical Applications

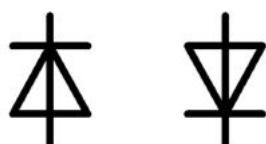
- All purpose mean power rectifier diodes
- Cooling via heatsinks
- Non-controllable and half-controllable rectifiers
- Free-wheeling diodes
- Recommended snubber network:
RC: 0,1 μ F, 100 Ω (P_R = 2W),
 R_p : 80 K Ω (P_R = 6 W)

1) Mounting with grease-like thermal compound or joint contact compound

2) M8x1,25 is standard; "UNF" should be added in description for 1/4 - 28 2A thread

V_{RSM} V	V_{RRM} V	$I_{FRMS} = 185$ A (maximum value for continuous operation) $I_{FAV} = 85$ A (sin. 180; $T_c = 130$ °C)	
800	800	SKN 86/08	SKR 86/08
1200	1200	SKN 86/12	SKR 86/12
1600	1600	SKN 86/16	SKR 86/16

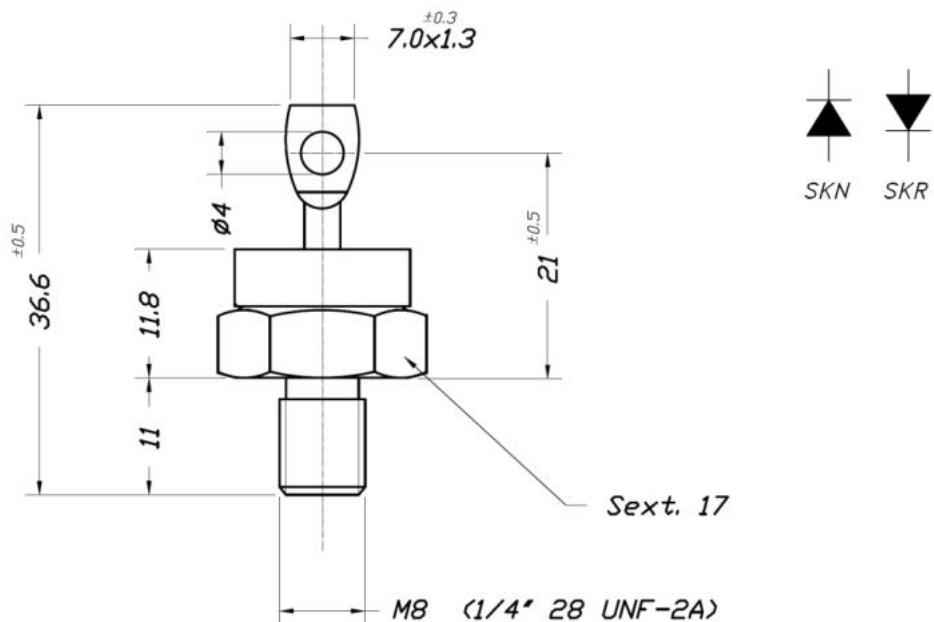
Symbol	Condition	Values	Units
I_{FAV}	sin. 180; $T_c = 100$ °C	115	A
I_{FSM}	$T_{vj} = 25$ °C ; 8,3...10 ms	1500	A
i^{2t}	$T_{vj} = 180$ °C ; 8,3...10 ms	1275	A
	$T_{vj} = 25$ °C ; 8,3...10 ms	11250	A ² s
	$T_{vj} = 180$ °C ; 8,3...10 ms	8125	A ² s
V_F	$T_{vj} = 25$ °C, $I_F = 150$ A	Max. 1,2	V
$V_{(TO)}$	$T_{vj} = 180$ °C	0,85	V
r_T	$T_{vj} = 180$ °C	3	mΩ
I_R	$T_{vj} = 25$ °C ; $V_R = V_{RRM}$		mA
	$T_{vj} = 180$ °C ; $V_R = V_{RRM}$	30	mA
R_{thjc}	DC to rect. 120	0,4	°C/W
R_{thch}		0,2	°C/W
T_{vj}		-40...+180	°C
T_{stg}		-55...+180	°C
M	M8 Stud 1/4 - 28 UNF 2A M8 Stud (lubricated) ¹⁾ 1/4 - 28 UNF 2A (lubricated) ¹⁾	4 2,5 3 2	Nm
a m	approx.	5 * 9,81 20	m/s ² g
Case		E10	



SKN

SKR

Dimensions in mm



Case E 10 (JEDEC: DO-203 AB (DO-5))

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