SKN 86, SKR 86

Stud Diode

Rectifier Diode

SKN 86
SKR 86

Target datasheet

Features

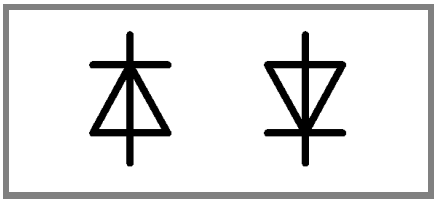
- Reverse voltages up to 1600 V
- Hermetic metal case with glass insulator
- Threaded studs ISO M8 or 1/4" 28 UNF-2A
- **SKN:** anode to stud
- **SKR:** cathode to stud

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 µF, 100 Ω (P_R = 2W),
  R_p: 80 KΩ (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 ¼ - 28 2A thread

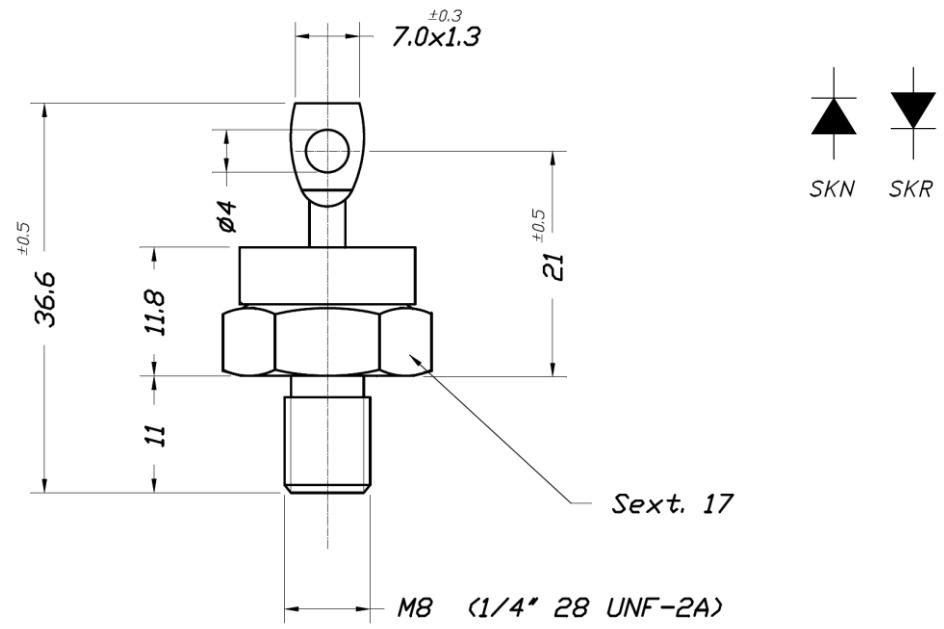


SKN SKR

V_{RSM} V	V_{RRM} V	I_{FRMS} = 185 A (maximum value for continuous operation) I_{FAV} = 85 A (sin. 180; T_c = 130 ºC)	
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 ºC	115	A
I_{FSM}	T_{vj} = 25º C ; 8,3...10 ms	1500	A
	T_{vj} = 180º C ; 8,3...10 ms	1275	A
i^2t	T_{vj} = 25º C ; 8,3...10 ms	11250	A^2s
	T_{vj} = 180º C ; 8,3...10 ms	8125	A^2s
V_F	T_{vj} = 25º C, I_F = 150 A	Max. 1,2	V
$V_{(TO)}$	T_{vj} = 180º C	0,85	V
r_T	T_{vj} = 180º C	3	mΩ
I_R	T_{vj} = 25º C ; V_R = V_{RRM}		mA
	T_{vj} = 180º C ; V_R = V_{RRM}	30	mA
R_{thjc}	DC to rect. 120	0,4	º C/W
R_{thch}		0,2	º C/W
T_{vj}		-40...+180	°C
T_{stg}		-55...+180	°C
M	M8 Stud	4	Nm
	¼ - 28 UNF 2A	2,5	Nm
	M8 Stud (lubricated)[1)]	3	Nm
	¼ - 28 UNF 2A (lubricated)[1)]	2	Nm
a		5 * 9,81	m/s^2
m	approx.	20	g
Case		E10	

Dimensions in mm



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

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