

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; $T_c = 130^\circ C$)	
800	800	SKN 86/08	SKR 86/08
1200	1200	SKN 86/12	SKR 86/12
1600	1600	SKN 86/16	SKR 86/16

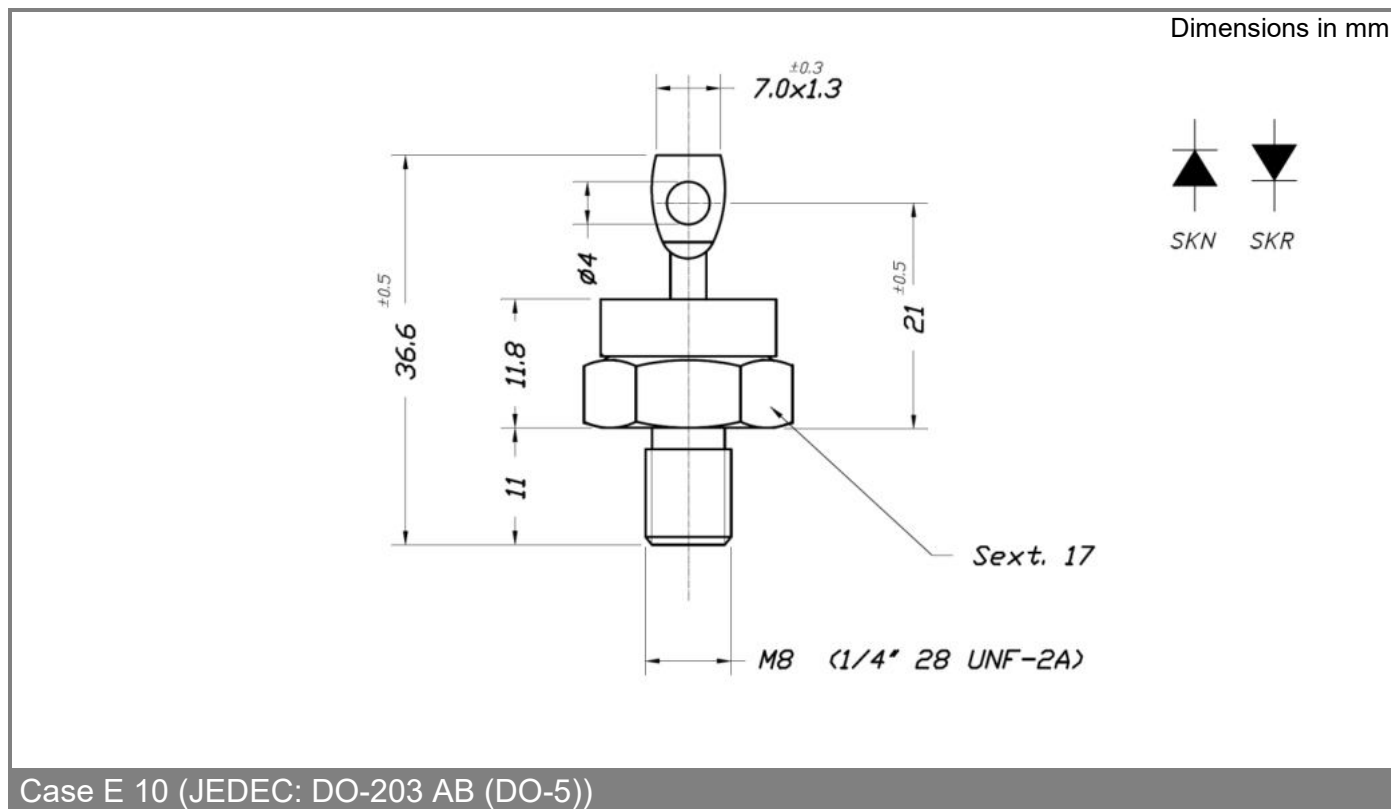
Symbol	Condition	Values	Units
I_{FAV}	sin. 180; $T_c = 100^\circ C$	115	A
I_{FSM}	$T_{vj} = 25^\circ C$; 8,3...10 ms	1500	A
	$T_{vj} = 180^\circ C$; 8,3...10 ms	1275	A
i^2t	$T_{vj} = 25^\circ C$; 8,3...10 ms	11250	A ² s
	$T_{vj} = 180^\circ C$; 8,3...10 ms	8125	A ² s
V_F	$T_{vj} = 25^\circ C$, $I_F =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



SKN



SKR



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