

SCDx0200Nxxx

Stud rectifier diode

FEATURES

- -All difussed design
- -High current capabilities
- -High surge current capabilities
- -High rated voltage
- -Low thermal impedance
- -Compact size and small weight
- -1/2"UNF and M12 thread stud

APPLICATION

- -High voltage Power supplies
- -Motor control
- -Battery chargers
- -Free wheeling diode
- -Resistance welding
- -Arc welding



Photo non-contractual

Electrical properties

Parameter		Value & test conditions	
Repetitive reverse voltage	V_{RRM}	1200 V	1600 V
Average forward current	I _{AV}	200 A @ Tc=110°C	200 A @ Tc=95°C
R.M.S. Forward current	I _{RMS}	315 A	
Surge forward current	I _{FSM}	2900 A at 10ms, Tj _{max}	
I ² t value	I ² t	$42x10^3 A^2s$	
Reverse current		50μA @ Tj=25°C	
	I _R	10 mA @ Tj _{max}	
Treshold voltage	Vo	0,90 V.	
Slope resistance	ro	1,07 mOhm	
On-state voltage max.	V_{FM}	1,45 V at I _{FM} =470 A @ Tj=25°C	

Thermal properties

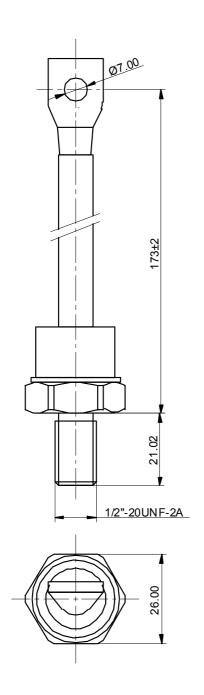
Parameter		Value & test conditions	
Max. operating junction temperature	Tj _{max}	190 °C	175 °C
Thermal resistance junction-capsule	RTH _{j-c}	DC 0,25 °C/W.	
		180° sin 0,29 °C/W.	
		120° sin 0,35 °C/W.	
		60° sin 0,39 °C/W.	
Thermal resistance capsule-heatsink	RTH _{c-hs}	0,12 °C/W.	
Storage temperature	T _{stg}	-40+190°C	-40+175°C

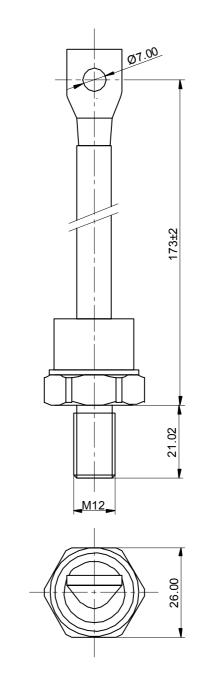
Mechanical properties

Parameter		Value & test conditions
Weight	M	142 g.
Mounting torque	m	1417 Nm ±10%

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SCDR0200N12/SCDR0200N16



SCDN0200N12/SCDN0200N16



SCDR0200N12M/SCDR0200N16M

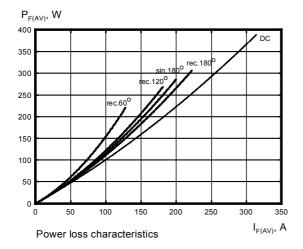


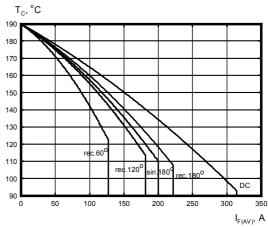
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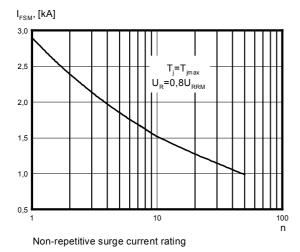


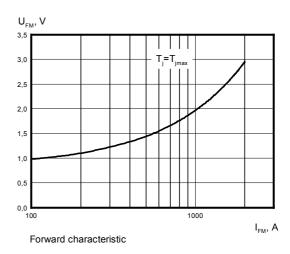
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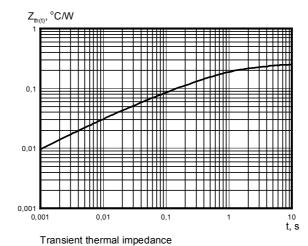




Case temperature ratings. Voltage class up to 12 (incl.)







Reserves the right to change limits, test conditions and dimensions given in this data sheet at any time without previous notice.



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