

SCDx0070Nxxx

Stud rectifier diode

FEATURES

- -High current capabilities
- -High surge current capabilities
- -High rated voltage
- -Compact size

APPLICATION

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



Photo non-contractual

TECHNICAL SPECIFICATION

Electrical properties

Parameter		Value & test conditions
Repetitive reverse voltage	V_{RRM}	1200 V
Average forward current	I _{AV}	70 A @ Tc=140°C
R.M.S. Forward current	I _{RMS}	110 A
Surge forward current	I _{FSM}	1000 A at 10ms, Tj _{max}
I ² t value	l ² t	5000 A ² s
Reverse current	I _R	50μA @ Tj=25°C
		10 mA @ Tj _{max}
Treshold voltage	Vo	0,93 V.
Slope resistance	ro	1,2 mOhm
On-state voltage max.	V_{FM}	1,35 V at I _{FM} =220 A @ Tj _{max}

Thermal properties

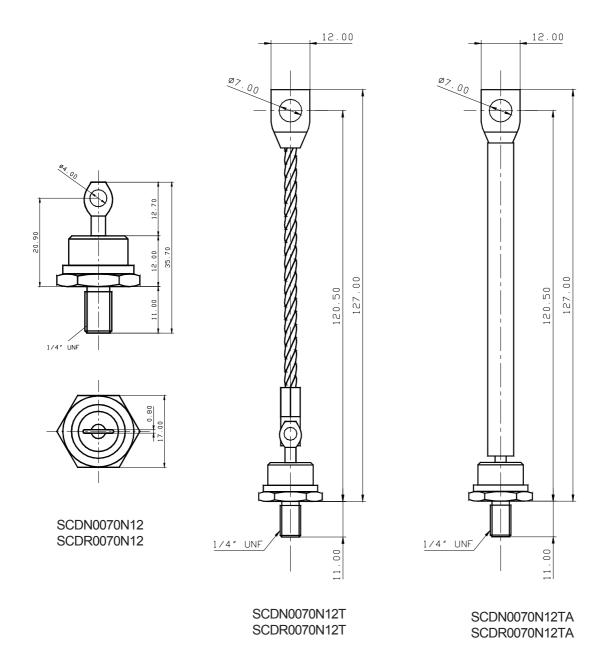
Parameter		Value & test conditions
Max. operating junction temperature	Tj _{max}	190 °C
Thermal resistance junction-capsule	RTH _{j-c}	DC 0,4°C/W.
		180° sin 0,46°C/W.
		120° sin 0,55°C/W.
		60° sin 0,62°C/W.
Thermal resistance capsule-heatsink	RTH _{c-hs}	0,15°C/W.
Storage temperature	T _{stg}	-40+190°C

Mechanical properties

Parameter		Value & test conditions
Weight	М	26 g.
		32 g (T & TA version)
Mounting torque	m	4,5 Nm ±10%

080122 Rev.:0





SCDR...

SCDN...



Cost Effective Products

SEMICODE ELECTRONICA

offers to the market a comprehensive range of products from recognized manufacturers at the best price/ quality relationship, this products are provided with a basic reference code that allows maintaining the same product reference even if the original device manufacturer is replaced. SEMICODE product reference has to be considered as a generic brand.

Seeking the market needs and trends, we are constantly increasing the product portfolio with new products and suppliers, please ask for the updated information available to our local contacts.

SEMICODE products include semiconductors, passive components and accessories focused in power electronics market.

Datasheet Annotations:

SEMICODE ELECTRONICA annotate datasheets in the top left hard corner of the front page, to indicate product status. The annotations are as follows:

Tentative information: This is the most tentative form of information and represents a very preliminary specification. No actual design work on the product has been started.

Preliminary Information: The product is in design and development. The datasheet represents the product as it is understood but details may change.

Advance Information: The product design is complete and final characterisation for volume production is well in hand.

No Annotation: The product parameters are fixed and the product is available to datasheet specification.

NOTICE: The technical data are to specify components, not to guarantee their properties. No warranty or guarantee expressed or implied is made regarding delivery or performance. The Company reserves the right to alter without prior notice the specification of any product. Information concerning possible methods of use is provided as a guide only and does not constitute any guarantee that such methods of use will be satisfactory in a specific piece of equipment. It is the user's responsibility to fully determine the performance and suitability of any equipment using such information and to ensure that any publication or data used is up to date.

All brand names and product names used in this publication are trademarks, registered trademarks or trade names of their respective owners.

@ SEMICODE ELECTRONICA 2008. TECHNICAL DOCUMENTATION – NOT FOR RESALE

380122 Rev.:0