

PRELIMINARY TECHNICAL INFORMATION

FEATURES APPLICATION

-All difussed design -High voltage Power

-High current capabilities
-High surge current capabilities
-High rated voltage
-Battery chargers
-Low thermal impedance
-Free wheeling diode
-Compact size and small weight
-Resistance welding

-Arc welding



non-contractual image

TECHNICAL SPECIFICATION

Electrical properties

-Metric thread stud

Parameter		Value & test conditions
Repetitive reverse voltage	V_{RRM}	1200 V
Average forward current	l _{AV}	320 A @ Tc=110°C
R.M.S. Forward current	I _{RMS}	502 A
Surge forward current	I _{FSM}	6300 A at 10ms, $V_R = 0.8V_{RRM}$, $T_{J_{max}}$
l²t value	l²t	198x10 ³ A ² s
Reverse current	I _R	50mA @ Tj=25°C
		50 mA @ Tj _{max}
Treshold voltage	Vo	0,69 V.
Slope resistance	ro	0,99 mOhm
On-state voltage max.	$V_{_{FM}}$	1,460 V at I _{FM} =800 A @ Tj=25°C

Thermal properties

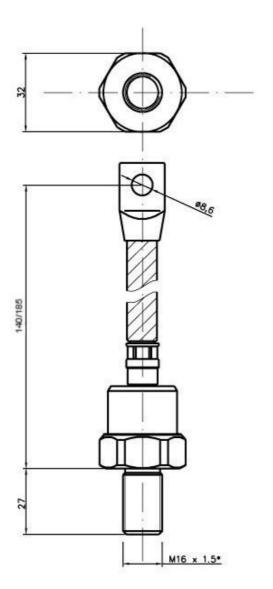
Parameter		Value & test conditions
Max. operating junction temperature	Tj _{max}	190 °C
Thermal resistance junction-capsule	RTH _{j-c}	DC 0,12 °C/W.
		180° sin 0,14 °C/W.
		120° sin 0,168 °C/W.
		60° sin 0,187 °C/W.
Thermal resistance capsule-heatsink	RTH _{c-hs}	0,10 °C/W.
Storage temperature	T _{sta}	-40+175°C

Mechanical properties

Parameter		Value & test conditions
Weight	M	220 g.
Mounting torque	m	2832 Nm



DIMENSIONS

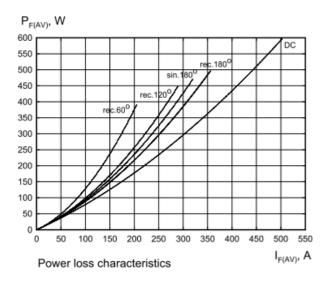


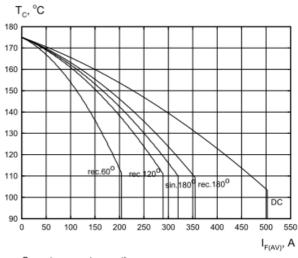


All dimensions in mm

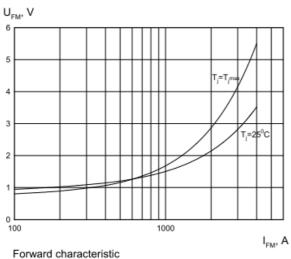


RAPHICAL INFORMATION





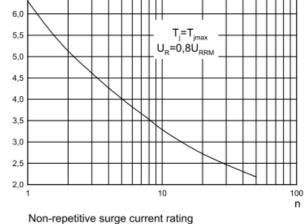
Case temperature ratings

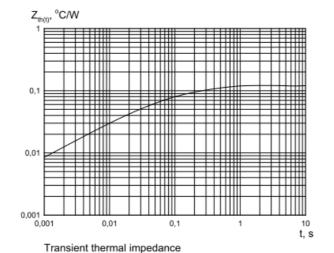




I_{FSM}, [kA]

6,5





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

Cost Effective Products

SEMICODE ELECTRONICA

Offers to the market a comprehensive range of products from recognized manufacturers at the best price/quality ratio, 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.

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

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