

U_{RRM}	up to 1600 V
I_{F(AV)}	1400 A
I_{ESM}	11000 A

- all diffused design
- high current capabilities
- high surge current capabilities
- high rated voltages
- low thermal impedance
- tested according to IEC standards
- compact size and small weight

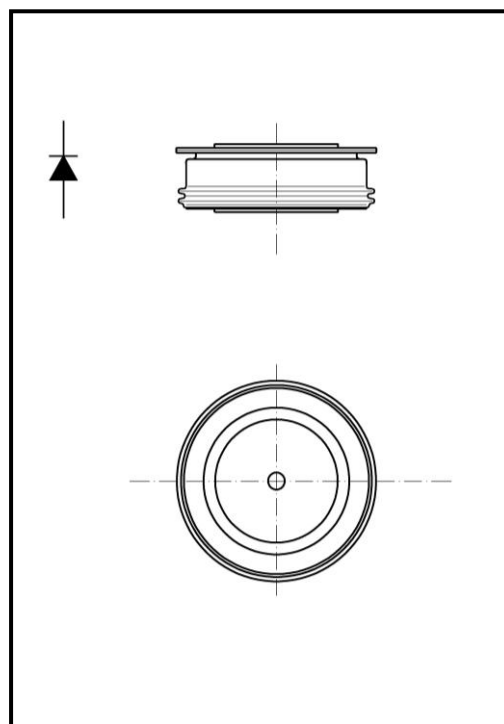
- High Voltage Power Supplies
- Motor Control
- Battery Chargers
- Free Wheeling Diode
- Resistance Welding

Designed for use in high power industrial and commercial electronic circuits and equipment where high currents are encountered and high reliability is essential. Low forward voltages let minimize energy loss.

When ordering please refer to device code builder presented below.
Please use the complete part number when ordering, quote or in any future correspondence relating to your order.

D75-1400-□□

voltage class (hundreds of volts)



Outline type code: JEDEC DO-200AA
See Package Details for further information

ELECTRICAL PARAMETERS**Voltage ratings**

Voltage class	U_{RRM}	U_{RSM}	I_{RRM}
	V	V	mA
4	400	500	30
6	600	700	
8	800	900	
10	1000	1100	
12	1200	1300	
14	1400	1500	
16	1600	1700	

Electrical properties

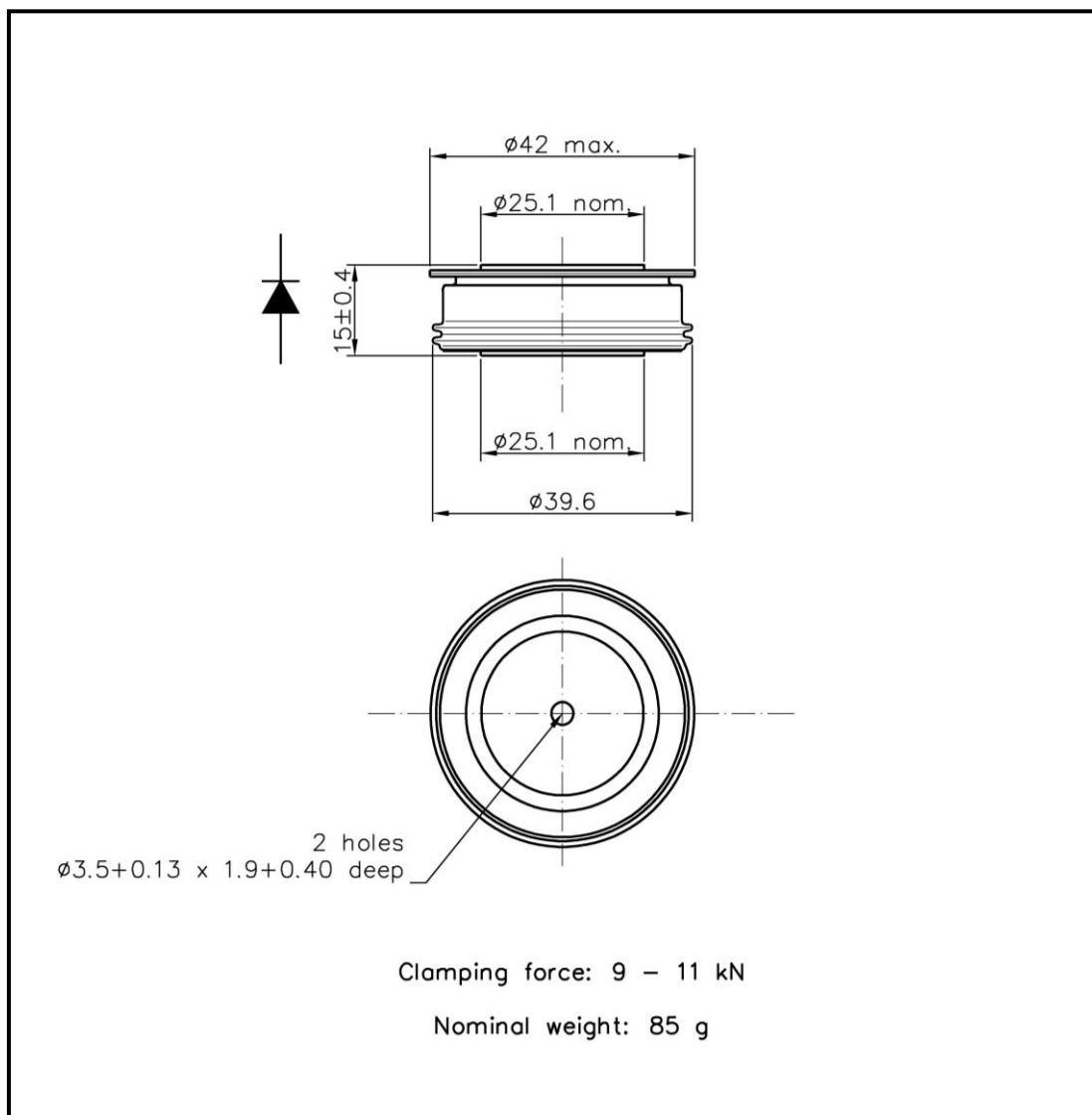
Parameter		Unit	Test conditions	Value
Average forward current @ case temperature	$I_{F(AV)}$	A		1400
	T_c	°C		75
RMS forward current	$I_{F(RMS)}$	A		2200
Surge current	I_{FSM}	A	$T_j=175^{\circ}\text{C}$, $U_R=0,8U_{RRM}$, $t_p=10\text{ms}$	11000
I^2t – value	I^2t	kA^2s		605
Forward voltage drop max.	U_{FM}	V	$T_j=25^{\circ}\text{C}$, $I_{FM}=1500\text{A}$	1,20
Threshold voltage	$U_{F(T0)}$	V		0,760
Slope resistance	r_F	$\text{m}\Omega$		0,308
Reverse recovery charge	Q_r	μC	$T_j=25^{\circ}\text{C}$, $I_{FM}=1500\text{A}$, $di_R/dt=25\text{A}/\mu\text{s}$	800

Thermal properties

Parameter		Unit	Test conditions	Value
Thermal resistance, junction to case	R_{thJC}	°C/W	two sided, DC	0,04
Thermal resistance, case to heatsink	R_{thCS}	°C/W	two sided	0,02
Operating junction temperature	$T_{jmin} \dots T_{jmax}$	°C		-40...+190
Storage temperature	T_{stg}	°C		-40...+190

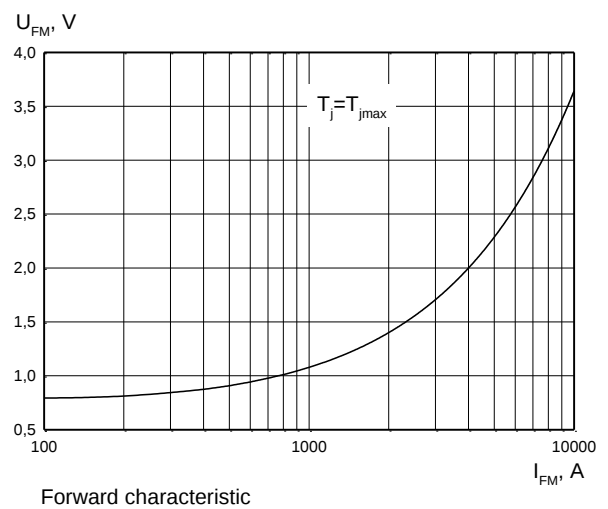
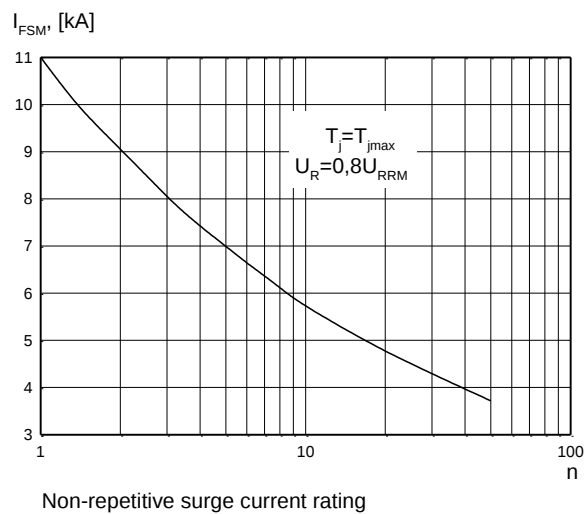
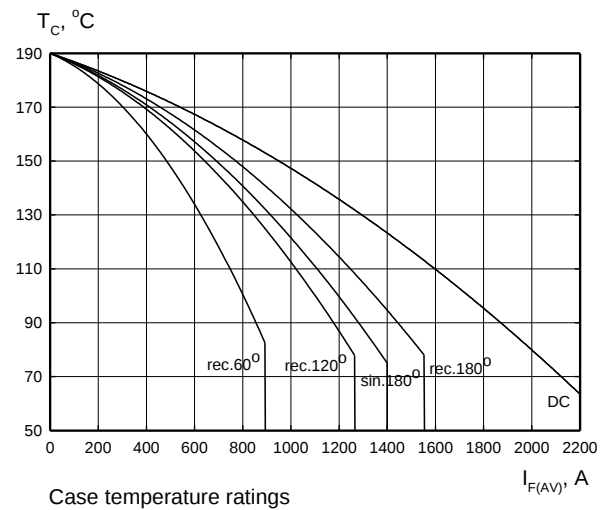
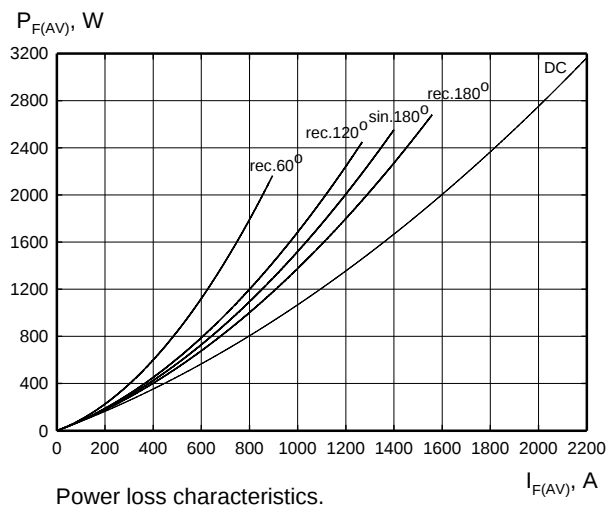
Mechanical properties

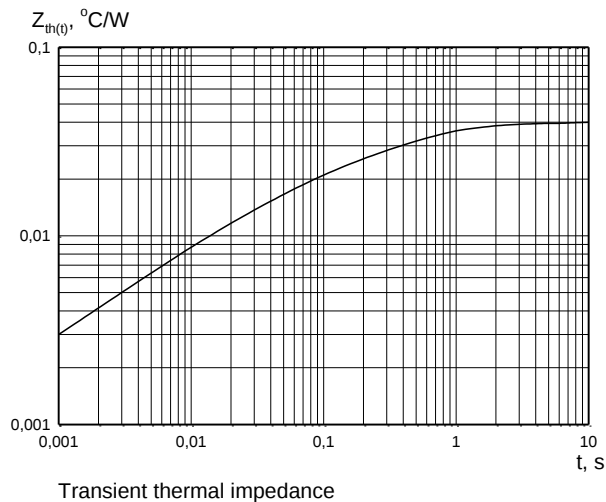
Parameter		Unit	Value
Clamping force	F_M	kN	9,0 ... 11,0
Weight	m	g	85

Package details

For further package information, please contact Sales & Marketing Department. All dimensions in mm, unless stated otherwise.
Do not scale.

CHARACTERISTICS





HEATSINKS

KUBARA LAMINA SA has its own proprietary range of extruded aluminium heatsinks designed to optimise the performance of our semiconductors with natural and forced air flow. High efficiency water cooled copper heatsinks are also available.

DEVICE CLAMPS

Disc devices require the correct clamping force to ensure their best operation.

KUBARA LAMINA SA offers a wide selection of clamps to suit all of our manufactured devices.

POWER ASSEMBLY CAPABILITY

KUBARA LAMINA SA provides a support for those customers requiring more than a basic semiconductor and offers precisely assembled Power Blocks according to factory or customer standards.