

D75-1100

Diode



Zakłady Elektronowe
LAMINA S.A.

KKD751100, February 2003 version

ELECTRICAL PARAMETERS

Voltage ratings

Voltage class	U_{RRM}	U_{RSM}	I_{RRM}
	V	V	mA
14	1400	1500	30
16	1600	1700	
18	1800	1900	
20	2000	2100	
22	2200	2300	
24	2400	2500	

Electrical properties

Parameter	Unit	Test conditions	Value
Average forward current @ case temperature	$I_{F(AV)}$	A	1100
	T_c	°C	75
RMS forward current	$I_{F(RMS)}$	A	1700
Surge current	I_{FSM}	A	$T_j=175^\circ\text{C}$, $U_R=0,8U_{RRM}$, $t_p=10\text{ms}$
I^2t – value	I^2t	kA^2s	405
Forward voltage drop max.	U_{FM}	V	$T_j=25^\circ\text{C}$, $I_{FM}=1500\text{A}$
Threshold voltage	$U_{F(T0)}$	V	0,763
Slope resistance	r_F	mΩ	0,48
Reverse recovery charge	Q_r	μC	$T_j=25^\circ\text{C}$, $I_{FM}=1500\text{A}$, $di_R/dt=25\text{A}/\mu\text{s}$

Thermal properties

Parameter	Unit	Test conditions	Value
Thermal resistance, junction to case	R_{thJC}	°C/W	two sided, DC
Thermal resistance, case to heatsink	R_{thCS}	°C/W	two sided
Operating junction temperature	$T_{jmin} \dots T_{jmax}$	°C	-40...+175
Storage temperature	T_{stg}	°C	-40...+190

Mechanical properties

Parameter	Unit	Value
Clamping force	F_M	kN
Weight	m	g

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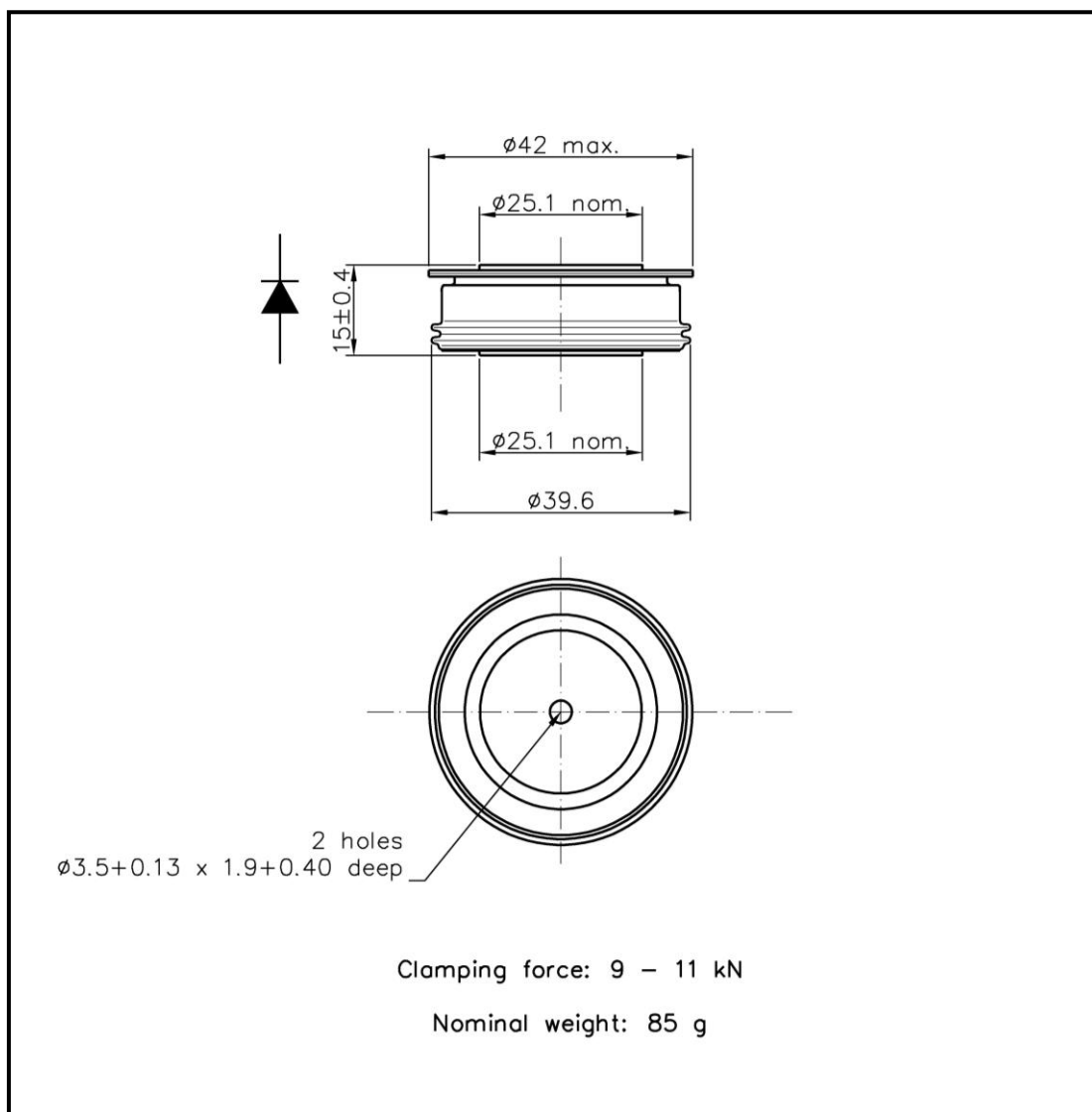
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Package details



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

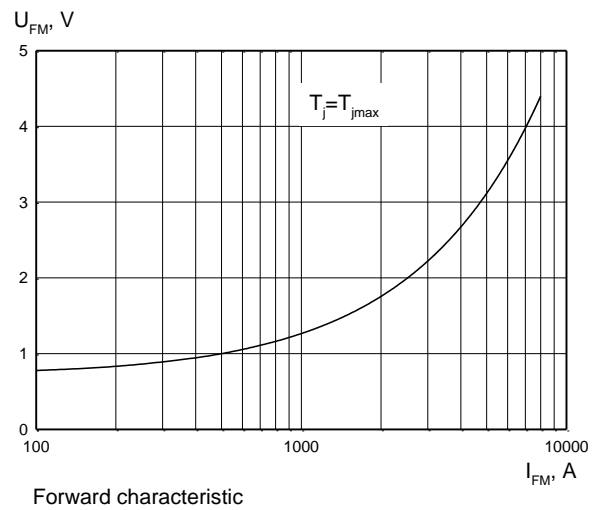
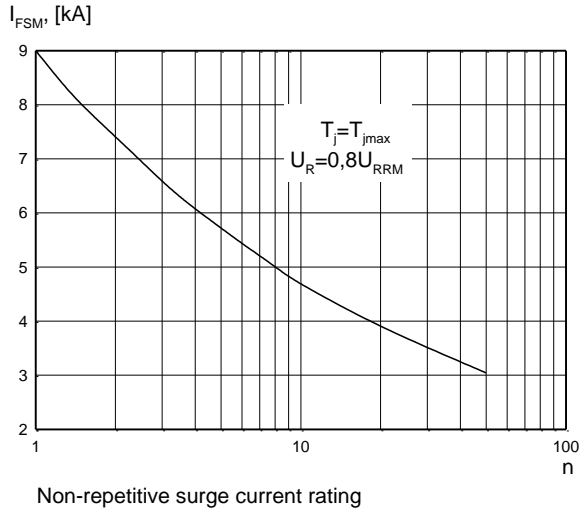
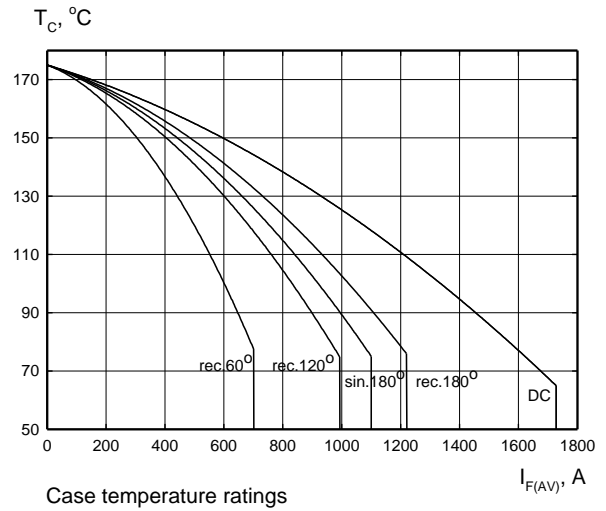
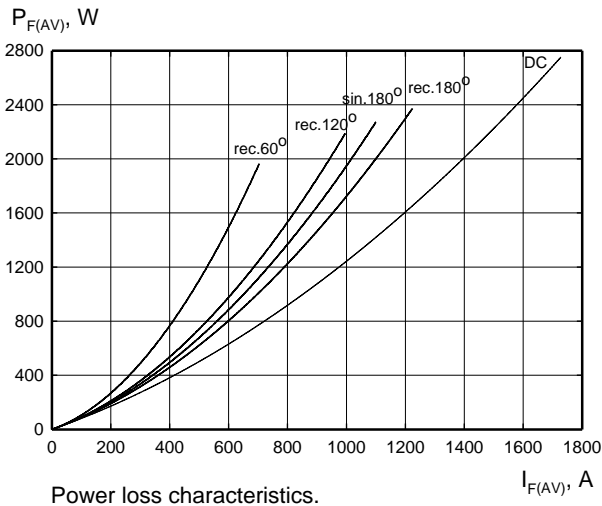
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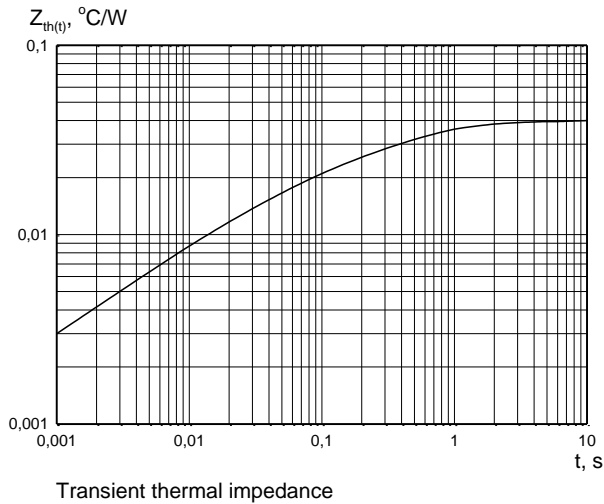
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HEATSINKS

LAMINA S.I. 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. LAMINA S.I. offers a wide selection of clamps to suit all of our manufactured devices.

POWER ASSEMBLY CAPABILITY

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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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