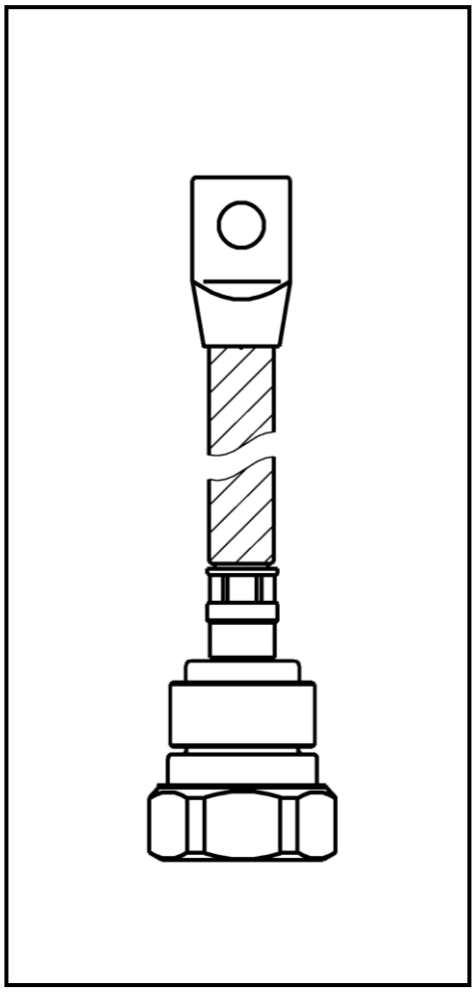
Zakłady Elektronowe
LAMINA S.A.

D64-200
Diode

KKD64200, October 2006 version

Diodes type D64 are of modern design with internal spring loaded contacts, high alumina ceramic insulator and pressure welded encapsulation. Designed for use in power electronic circuits and equipment under normal operating conditions.



KEY PARAMETERS

U_{RRM}	up to	3200 V
$I_{F(AV)}$		200 A
I_{FSM}		5000 A

FEATURES

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

APPLICATION

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

See package details for further information

Designed for use in high power industrial and commercial power electronic circuits and equipment where high currents are encoutered and high reliability is essential.

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www.lamina.com.pl

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ORDERING INFORMATION

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.

D64-200-□□-□0

- polarity code: N –cathode on base, R –anode on base
- voltage class (hundreds of volts)

ELECTRICAL PARAMETERS

Voltage ratings

Voltage class	U_{RRM}	U_{RSM}	I_{RRM}
	V	V	mA
18	1800	1900	50
20	2000	2100	
22	2200	2300	
24	2400	2500	
26	2600	2700	
28	2800	2900	
30	3000	3100	
32	3200	3300	

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Electrical properties

Parameter		Unit	Test conditions	Value
Average forward current @ case temperature	$I_{F(AV)}$	A		200
	T_c	°C		130
RMS forward current	$I_{F(RMS)}$	A		315
Surge current	I_{FSM}	A	$T_j=T_j$max, $U_R=0,8U_{RRM}$, t_p=10ms	5000
I^2t – value	I^2t	kA^2s		125
Forward voltage drop max.	U_{FM}	V	T_j=25°C, I_{FM}=800A	1,80
Treshold voltage	$U_{F(T0)}$	V		0,72
Slope resistance	r_F	mΩ		1,85

Termal properties

Parameter		Unit	Test conditions	Value
Thermal resistance, junction to case	R_{thJC}	°C/W	DC	0,12
Thermal resistance, case to heatsink	R_{thCS}	°C/W		0,10
Operating junction temperature	T_{jmin}...T_{jmax}	°C		-40...+175
Storage temperature	T_{stg}	°C		-40...+175

Mechanical properties

Parameter		Unit	Value
Mounting force	F	kN	3,5
Weight	m	g	180

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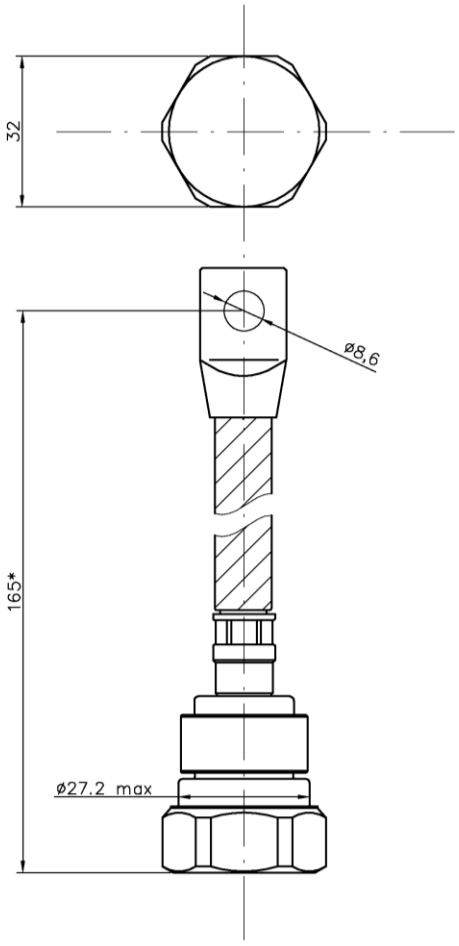
Package details



Lead lenght measured to eye center.
Custom lenght available.

Weight 180 g

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

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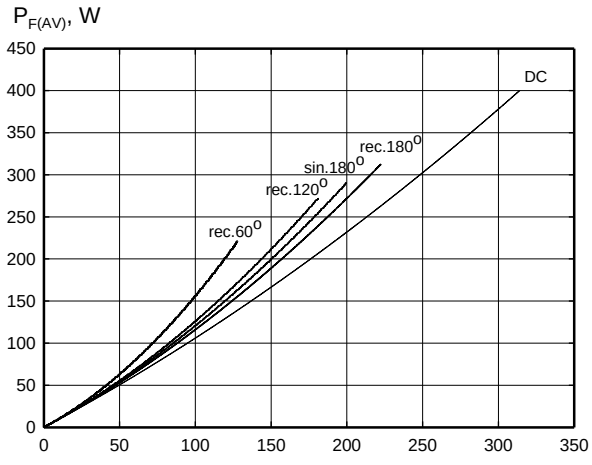
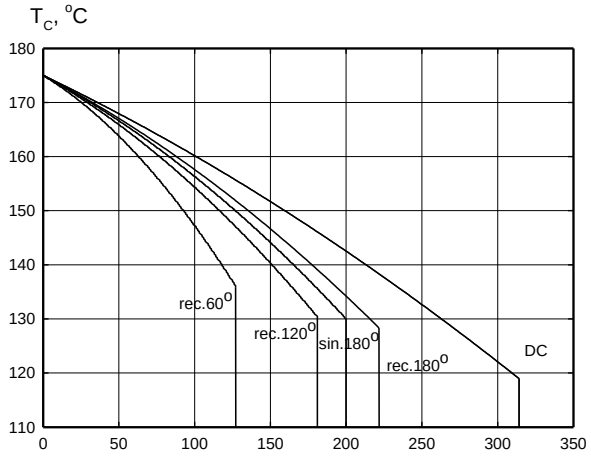
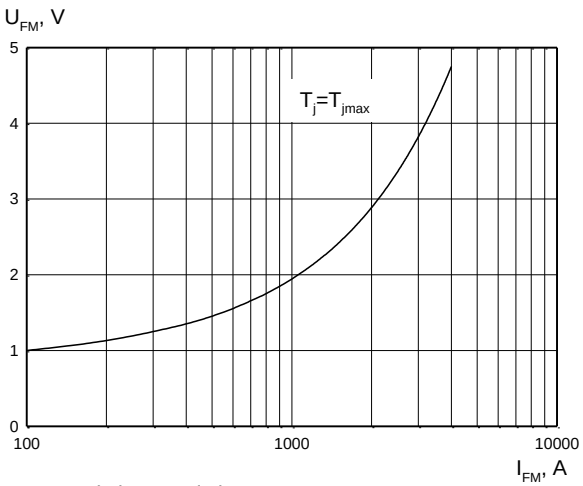
CHARACTERISTICS



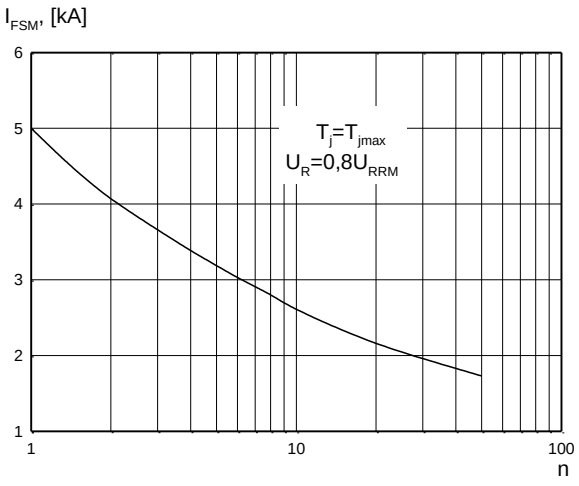
Power loss characteristics



Case temperature ratings.



Forward characteristic



Non-repetitive surge current rating

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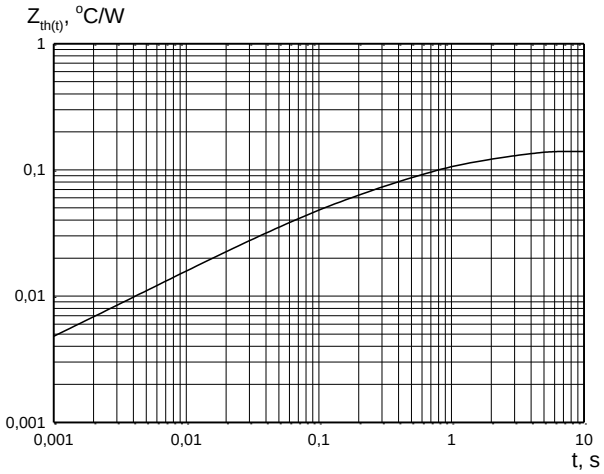

Transient thermal impedance

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.

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.

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