D62-250
Diode

KKD62250, October 2006 version

Diodes type D62 are of modern design with internal spring loaded contacts and pressure welded glass-to-metal seal. Designed for use in powe r electronic circuits and equipment under normal operating conditions.

KEY PARAMETERS

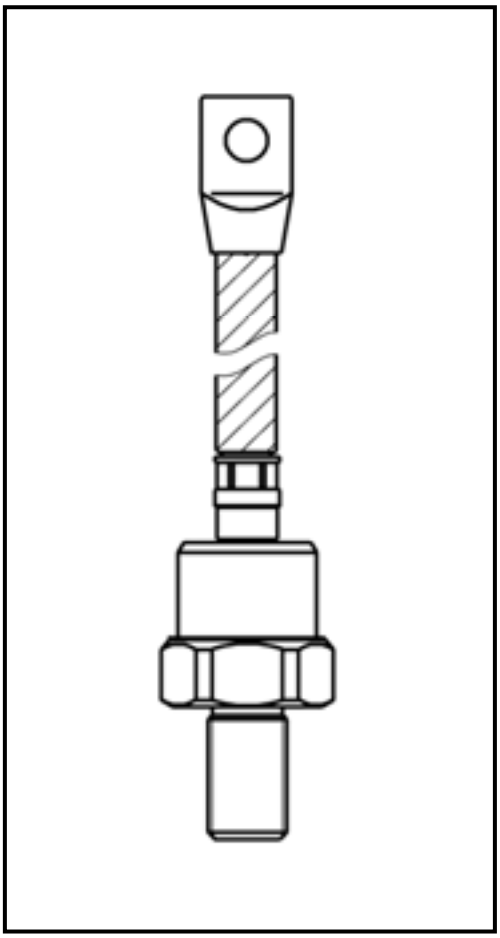
U_{RRM}	up to 1600 V
$I_{F(AV)}$	250 A
I_{FSM}	5500 A

FEATURES

- all di□used 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



Outline type code: JEDEC DO-205AB

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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ORDERING INFORMATION

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

D62-250-□□-□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
04	400	500	50
06	600	700	
08	800	900	
10	1000	1100	
12	1200	1300	
14	1400	1500	
16	1600	1700	

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Electrical properties

Parameter		Unit	Test conditions	Value	
Average forward current @ case temperature	$I_{F(AV)}$	A		250	
	T_c	°C		$U_{RRM} \leq 1200V$ $U_{RRM} > 1200V$	140 125
RMS forward current	$I_{F(RMS)}$	A		395	
Surge current	I_{FSM}	A	$T_j=T_j max$, $U_R=0,8U_{RRM}$, $t_p=10ms$	5500	
I^2t – value	I^2t	kA^2s		150	
Forward voltage drop max.	U_{FM}	V	$T_j=25°C$, $I_{FM}=800A$	1,60	
Treshold voltage	$U_{F(T0)}$	V		0,70	
Slope resistance	r_F	mΩ		1,22	

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		$U_{RRM} \leq 1200V$ $U_{RRM} > 1200V$	-40...+190 -40...+175
Storage temperature	T_{stg}	°C		-40...+190	

Mechanical properties

Parameter		Unit	Value
Mounting torque	M	Nm	28 ... 32
Weight	m	g	260

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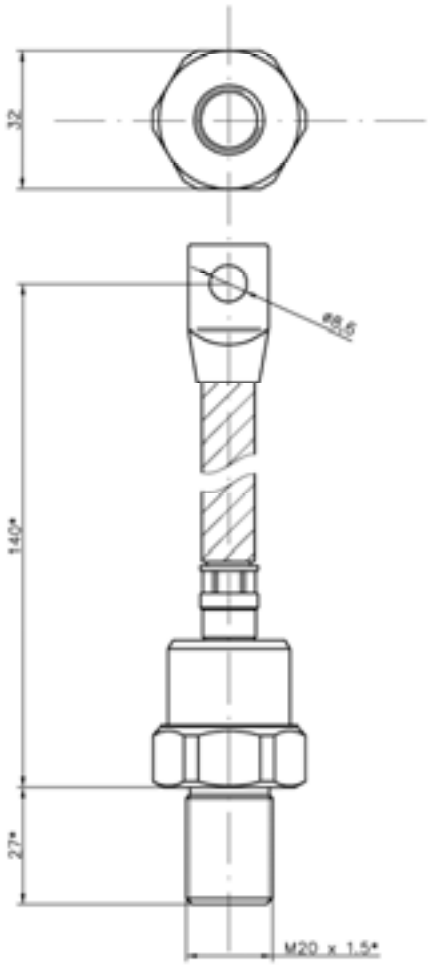
Package details



Lead lenght measured from hex bottom to eye center.
Custom lenght available.
Different thread sizes and stud lenghts available.

Weight 260 g

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

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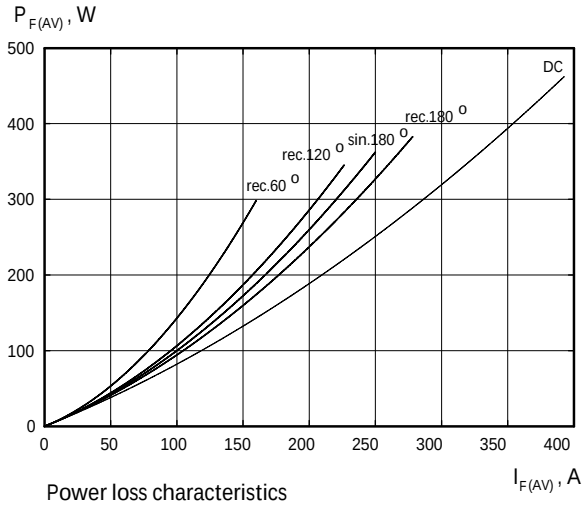
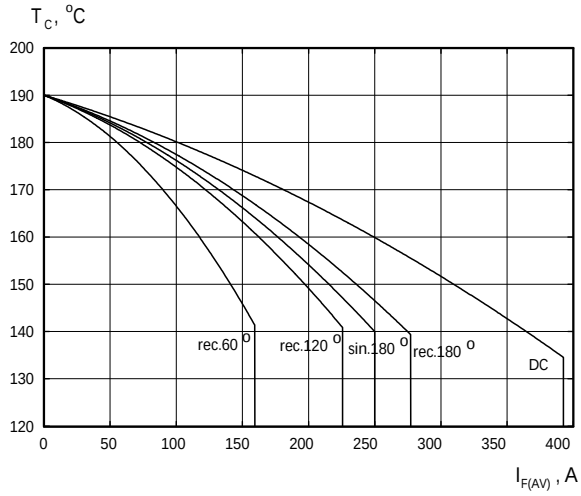
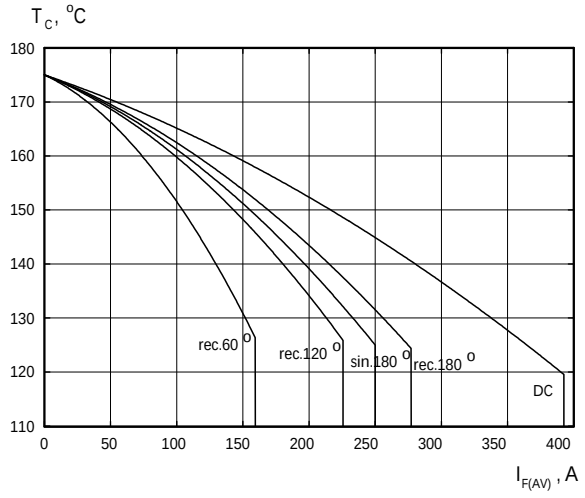
CHARACTERISTICS



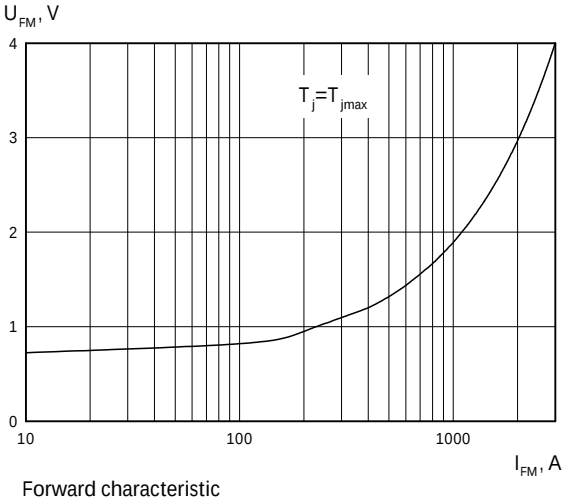
Power loss characteristics



Case temperature ratings. Vo ltage class up to 12 (incl.)



Case temperature ratings. Voltage class > 12



Forward characteristic

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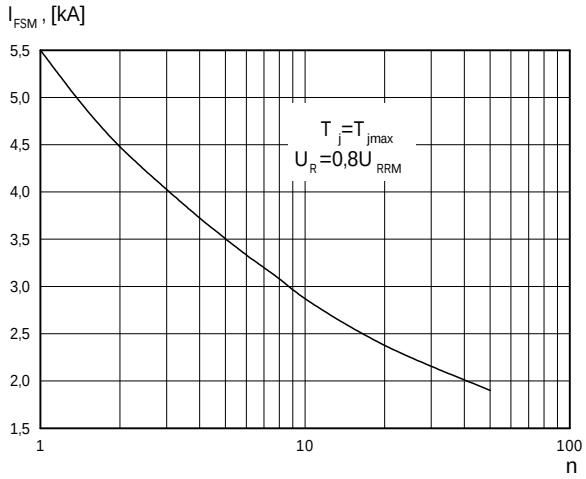
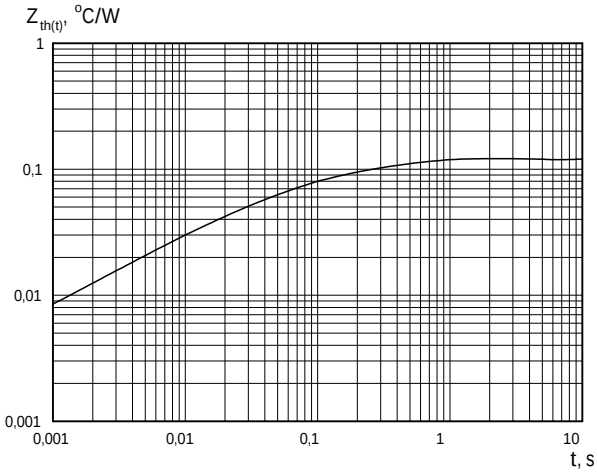


Non-repetitive surge current rating



Transient thermal impedance