THE DATASHEET OF

DF361-200-24_D37MM

	TET ESTEL AS ESTONIA	**June 2015**

Series
DF361-200
DF361-200X

Fast Recovery Stud-Mounted Diodes Type DF361-200, DF361-200X

For use as high-power inverters,
fly-wheel diodes in DC choppers,
power supplies as high frequency rectifier

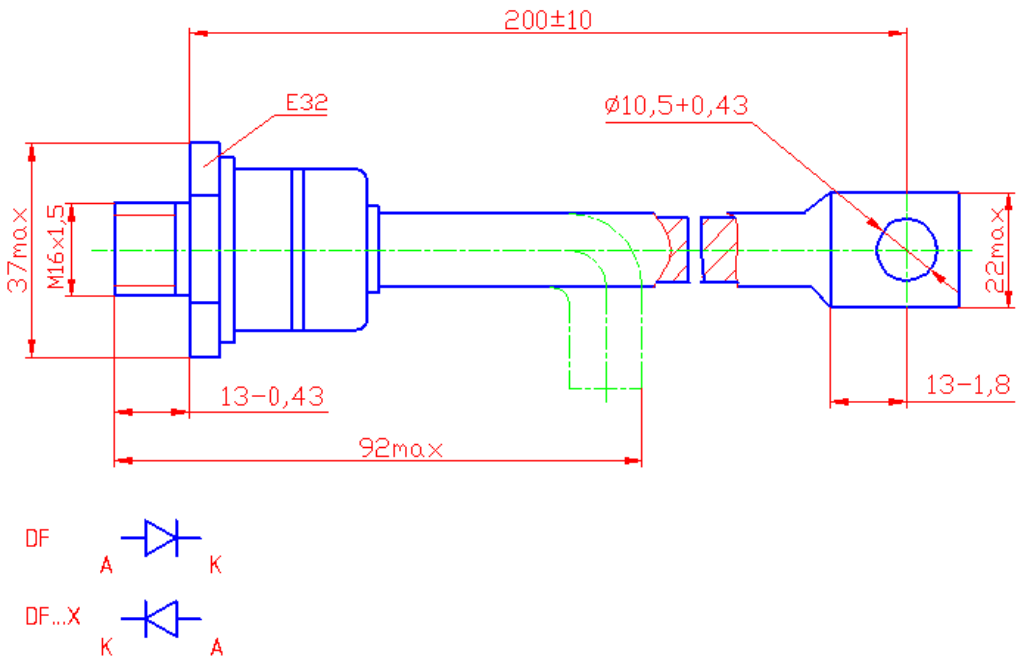
Maximum mean forward current						I_{FAV}		**200 A**			
Maximum repetitive peak reverse voltage						U_{RRM}		**1000 ÷2400 V**			
Reverse recovery time						**trr**		**2,5; 3,2; 4,0 µs**			
U_{RRM}, V	1000	1100	1200	1300	1400	1500	1600	1800	2000	2200	2400
Voltage code	10	11	12	13	14	15	16	18	20	22	24
Tvj, °C	- 60 ÷ 125										

MAXIMUM ALLOWABLE RATINGS					
Symbols and parameters		Units	DF361-200 DF361-200X	Conditions	
I_{FAV}	Mean forward current	A	200 316	Tc=85°C, Tc=55°C, 180° half-sine wave, 50 Hz	
I_{FRMS}	RMS forward current	A	314	Tc=85°C	
I_{FSM}	Surge forward current	kA	4,5 5,0	Tvj=125°C Tvj= 25°C	tp=10 ms U_R=0
I^2t	Limiting load integral	kA^2s	101 125	Tvj=125°C Tvj= 25°C	
U_{RRM}	Repetitive peak reverse voltage	V	1000 ÷2400	Tj мin≤Tvj≤Tjм 180° half-sine wave, 50 Hz	
U_{RSM}	Non-repetitive peak reverse voltage	V	1100 ÷2500	Tj мin≤Tvj≤Tjм 180° half-sine wave tp=10 ms, Single pulse	
Tstg	Storage temperature	°C	-60÷80		
Tvj	Junction temperature	°C	-60÷125		
CHARACTERISTICS					
U_{FM}	Peak forward voltage	V	1,8	Tvj=25°C, I_{FM}=3,14 I_{FAV}	
$U_{F(TO)}$	Threshold voltage	V	1,1	Tvj=125°C 1,57 I_{FAV}< I_F <4,71 I_{FAV}	
R_T	Forward slope resistance	mΩ	0,95		
I_{RRM}	Repetitive peak reverse current	mA	35	Tvj=125°C, U_R= U_{RRM}	

CHARACTERISTICS				
Symbols and parameters		Units	DF361-200 DF361-200X	Conditions
trr	Reverse recovery time	µs	2,5 ÷ 4,0 2,0 ÷ 3,2 2,0 ÷ 2,5	Tvj=125°C, IF=200A,UR=100V diR / dt = 50 A/µs diR / dt =100 A/µs diR / dt =200 A/µs
Qrr	Recovered charge	µC	90 ÷ 140 130 ÷ 200 150 ÷ 230	Tvj=125°C, IF=200A,UR=100V diR / dt = 50 A/µs diR / dt =100 A/µs diR / dt =200 A/µs
Rthjc	Thermal resistance junction to case	°C/W	0,12	Direct current

ORDERING						
	DF	**361**	**200**	**X**	**18**	**3**
	1	**2**	**3**	**4**	**5**	**6**

1. Fast recovery diode.
2. Design version.
3. Mean forward current, A.
4. Reverse polarity (cathode stud mounted), withoud X-normal polarity.
5. Voltage code (18 = 1800 V).
6. Group of reverse recovery time (2 ≤ 4,0 µs; 3 ≤ 3,2 µs; 4 ≤ 2,5 µs).



Tightening torque: 24 ÷ 36 Nm
Weight: 260 grams

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