THE DATASHEET OF

DF233-400-24_14MM

	TET ESTEL AS ESTONIA	**July 2015**

Series
DF233-400

Fast Recovery Press-Pack Diode
Type DF233-400

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

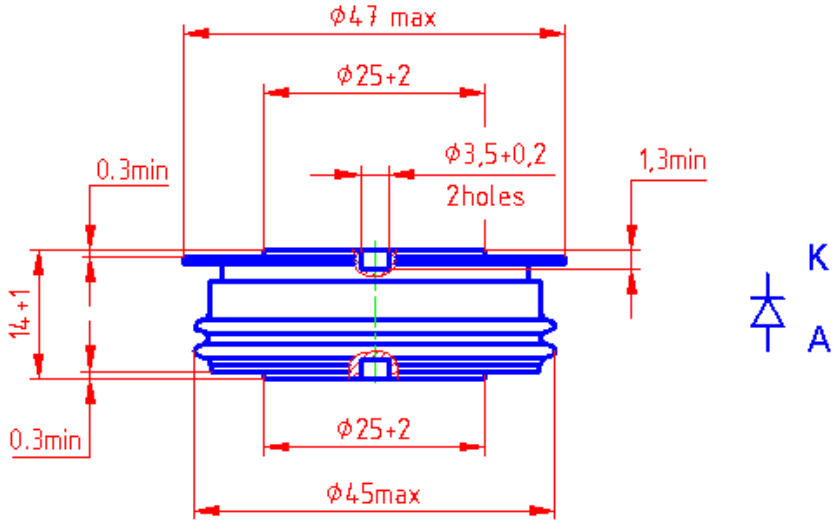
Maximum mean forward current				I_{FAV}	**400 A**		
Maximum repetitive peak reverse voltage				U_{RRM}	**1400 ÷2400 V**		
Reverse recovery time				**trr**	**3,2; 4,0; 5,0 µs**		
U_{RRM}, V	1400	1500	1600	1800	2000	2200	2400
Voltage code	14	15	16	18	20	22	24
Tvj, °C	- 60 ÷ 125						

MAXIMUM ALLOWABLE RATINGS					
Symbols and parameters		Units	DF233-400	Conditions	
I_{FAV}	Mean forward current	A	400 720	Tc=90 °C, Tc=55 °C, 180° half-sine wave, 50 Hz	
I_{FRMS}	RMS forward current	A	628	Tc=90°C	
I_{FSM}	Surge forward current	kA	8,3 9,0	Tvj=125°C Tvj= 25°C	tp=10 ms U_R=0
I^2t	Limiting load integral	kA^2s	344 405	Tvj=125°C Tvj= 25°C	
U_{RRM}	Repetitive peak reverse voltage	V	1400÷2400	Tj мin≤Tvj≤Tjм 180° half-sine wave, 50 Hz	
U_{RSM}	Non-repetitive peak reverse voltage	V	1500÷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	2,0	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	0,74		
I_{RRM}	Repetitive peak reverse current	mA	50	Tvj=125°C, U_R= U_{RRM}	

CHARACTERISTICS				
Symbols and parameters		Units	DF233-400	Conditions
trr	Reverse recovery time	μs	3,2 ÷ 5,0 2,5 ÷ 4,0 2,0 ÷ 3,2	Tvj=125°C, IF=400A,UR=100V diR / dt = 50A/μs diR / dt =100A/μs diR / dt =200A/μs
Qrr	Recovered charge	μC	140 ÷ 230 190 ÷ 300 250 ÷ 380	Tvj=125°C, IF=400A,UR=100V diR / dt = 50A/μs diR / dt =100A/μs diR / dt =200A/μs
Rthjc	Thermal resistance junction to case	°C/W	0,04	Direct current, double side cooled

ORDERING						
	DF	**233**	**400**	**22**	**3**	
	1	**2**	**3**	**4**	**5**	

1. Fast recovery diode
2. Design version
3. Mean forward current, A
4. Voltage code (22 = 2200 V)
5. Group of reverse recovery time (1 ≤ 5,0 μs; 2 ≤ 4,0 μs; 3 ≤ 3,2 μs)



Mounting force : 8 ÷ 12 kN
Weight : 120 grams

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