THE DATASHEET OF

D433-250-46_26MM

	TET ESTEL AS ESTONIA	**August 2014**

Series
DF433-250

Fast Recovery Press-Pack Diode
Type DF433-250

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

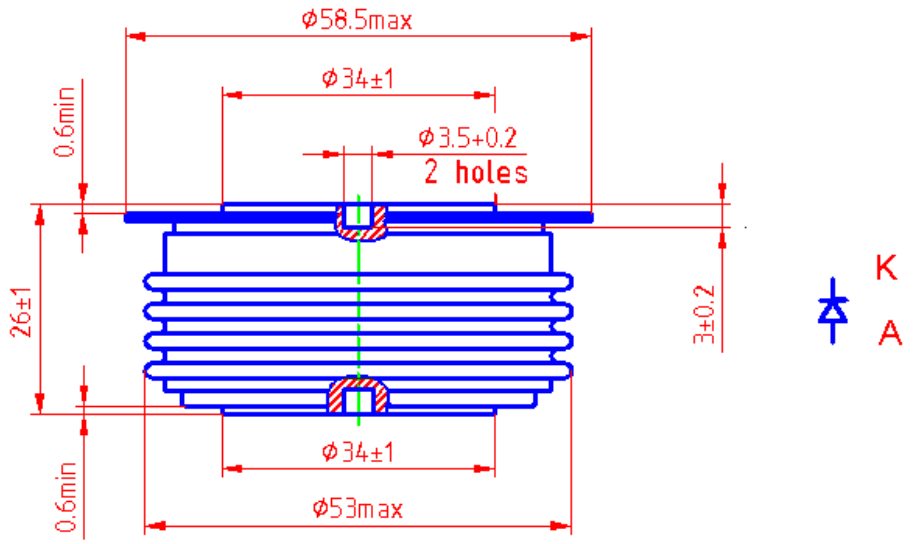
Maximum mean forward current					I_{FAV}	**250 A**		
Maximum repetitive peak reverse voltage					U_{RRM}	**3200 ÷4600 V**		
Reverse recovery time					**trr**	**4,0; 5,0; 6,3 µs**		
U_{RRM}, V	3200	3400	3600	3800	4000	4200	4400	4600
Voltage code	32	34	36	38	40	42	44	46
Tvj, °C	- 60 ÷ 125							

MAXIMUM ALLOWABLE RATINGS					
Symbols and parameters		Units	DF433-250	Conditions	
I_{FAV}	Mean forward current	A	250 520	Tc=100 °C, Tc=55 °C, 180° half-sine wave, 50 Hz	
I_{FRMS}	RMS forward current	A	392	Tc=100°C	
I_{FSM}	Surge forward current	kA	6,0 7,0	Tvj=125°C Tvj= 25°C	tp=10 ms U_R=0
I^2t	Limiting load integral	kA^2s	180 245	Tvj=125°C Tvj= 25°C	
U_{RRM}	Repetitive peak reverse voltage	V	3200÷4600	Tj мin≤Tvj≤Tjм 180° half-sine wave, 50 Hz	
U_{RSM}	Non-repetitive peak reverse voltage	V	3300÷4700	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	2,5	Tvj=25°C, I_{FM}=3,14 I_{FAV}	
$U_{F(TO)}$	Threshold voltage	V	1,45	Tvj=125°C 1,57 I_{FAV}< I_F <4,71 I_{FAV}	
R_T	Forward slope resistance	mΩ	1,51		
I_{RRM}	Repetitive peak reverse current	mA	50	Tvj=125°C, U_R= U_{RRM}	

CHARACTERISTICS				
Symbols and parameters		Units	DF433-250	Conditions
trr	Reverse recovery time	μs	4,0 ÷ 6,3 3,2 ÷ 5,0 2,5 ÷ 4,0	Tvj=125°C, IF=250A,UR=100V diR / dt = 50A/μs diR / dt =100A/μs diR / dt =200A/μs
Qrr	Recovered charge	μC	230 ÷330 270 ÷ 430 300 ÷500	Tvj=125°C, IF=250A,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	**433**	**250**	**34**	**1**	
	1	**2**	**3**	**4**	**5**	

1. Fast recovery diode
2. Design version
3. Mean forward current, A
4. Voltage code (34 = 3400 V)
5. Group of reverse recovery time (C4 ≤ 6,3 μs; 1 ≤ 5,0 μs; 2 ≤ 4,0 μs)



Mounting force : 10 ÷ 15 kN
Weight : 250 grams

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