THE DATASHEET OF

DF333-320-36_26MM

	TET ESTEL AS ESTONIA	**September 2015**

Series
DF333-320

Fast Recovery Press-Pack Diode
Type DF333-320

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

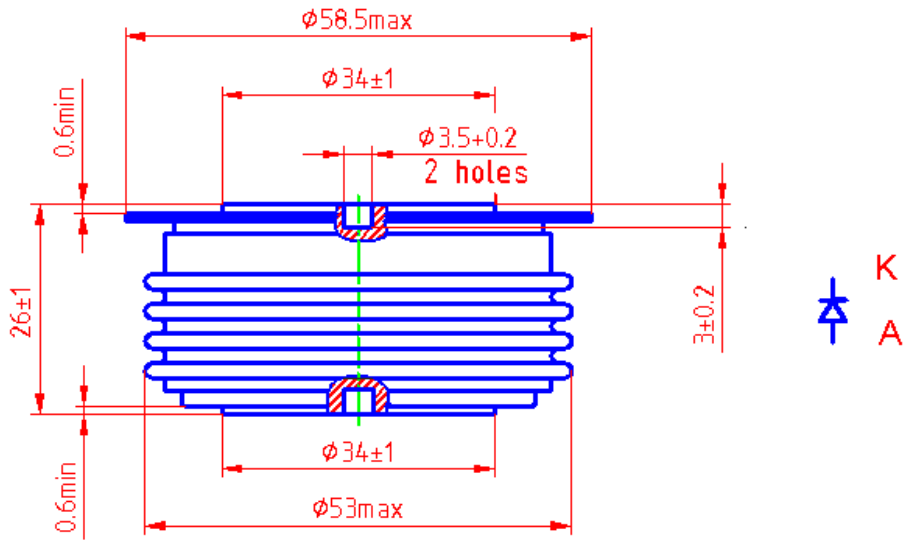
Maximum mean forward current				I_{FAV}		**320 A**	
Maximum repetitive peak reverse voltage				U_{RRM}		**2400 ÷3600 V**	
Reverse recovery time				**trr**		**3,2; 4,0; 5,0 µs**	
U_{RRM}, V	2400	2600	2800	3000	3200	3400	3600
Voltage code	24	26	28	30	32	34	36
Tvj, °C	- 60 ÷ 125						

MAXIMUM ALLOWABLE RATINGS					
Symbols and parameters		Units	DF333-320	Conditions	
I_{FAV}	Mean forward current	A	320 605	Tc=90 °C, Tc=55 °C, 180° half-sine wave, 50 Hz	
I_{FRMS}	RMS forward current	A	502	Tc=90°C	
I_{FSM}	Surge forward current	kA	7,0 7,7	Tvj=125°C Tvj= 25°C	tp=10 ms U_R=0
I^2t	Limiting load integral	kA^2s	245 296	Tvj=125°C Tvj= 25°C	
U_{RRM}	Repetitive peak reverse voltage	V	2400÷3600	Tj мin≤Tvj≤Tjм 180° half-sine wave, 50 Hz	
U_{RSM}	Non-repetitive peak reverse voltage	V	2500÷3700	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	2,7	Tvj=25°C, I_{FM}=3,14 I_{FAV}	
$U_{F(TO)}$	Threshold voltage	V	1,55	Tvj=125°C 1,57 I_{FAV}< I_F <4,71 I_{FAV}	
R_T	Forward slope resistance	mΩ	1,39		
I_{RRM}	Repetitive peak reverse current	mA	50	Tvj=125°C, U_R= U_{RRM}	

CHARACTERISTICS				
Symbols and parameters		Units	DF333-320	Conditions
trr	Reverse recovery time	μs	3,2 ÷ 5,0 2,5 ÷ 4,0 2,0 ÷ 3,2	Tvj=125°C, IF=320A,UR=100V diR / dt = 50A/μs diR / dt =100A/μs diR / dt =200A/μs
Qrr	Recovered charge	μC	170 ÷ 270 220 ÷ 350 260 ÷ 410	Tvj=125°C, IF=320A,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	**333**	**320**	**32**	**3**	
	1	**2**	**3**	**4**	**5**	

1. Fast recovery diode.
2. Design version.
3. Mean forward current, A .
4. Voltage code (32 = 3200 V).
5. Group of reverse recovery time (1 ≤ 5,0 μs; 2 ≤ 4,0 μs; 3 ≤ 3,2 μs).



Mounting force : 10 ÷ 15 kN
Weight : 250 grams

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