



TET ESTEL AS
ESTONIA

**October
2015**

**Series
DL153-1250**

**Avalanche Rectifier Press-Pack
Diode
Type DL153-1250**

Guaranteed maximum avalanche power dissipation.
Designed for rectifiers and industrial applications.

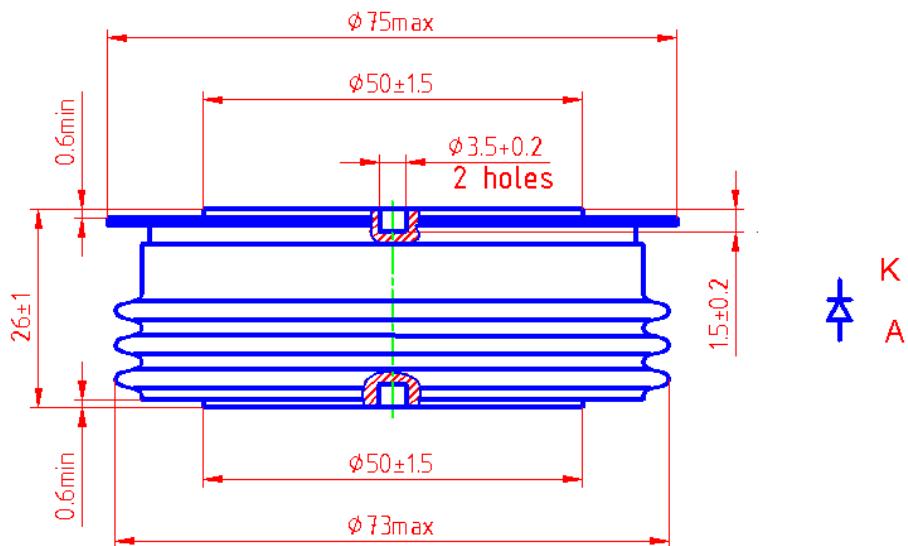
Maximum mean forward current	I _{FAV}	1250 A
Maximum repetitive peak reverse voltage	U _{RRM}	2400 ÷ 3400 V
Surge reverse power dissipation	P _{PRSM}	16kW
Reverse recovery time	trr (typ)	50 µs
U _{RRM} , V	2400	2600
Voltage code	24	26
Tvj, °C	- 60 ÷ 150	

MAXIMUM ALLOWABLE RATINGS				
Symbols and parameters		Units	DL153-1250	Conditions
I _{FAV}	Mean forward current	A	1250 2210	Tc=108 °C, Tc=55 °C, 180° half-sine wave, 50 Hz
I _{FRMS}	RMS forward current	A	1960	Tc=108 °C
I _{FSM}	Surge forward current	kA	24 26	Tvj=150°C Tvj=25°C
I ² t	Limiting load integral	kA ² s	2880 3380	Tvj=150°C Tvj=25°C
U _{RRM}	Repetitive peak reverse voltage	V	2400÷3400	Tj min≤Tvj≤Tjm 180° half-sine wave, 50 Hz
U _{BR}	Reverse breakdown voltage	V	3000÷4250	Tj min≤Tvj≤Tjm 180° half-sine wave, 50 Hz Ir=10mA
P _{PRSM}	Surge reverse power dissipation	kW	16	Tvj=150°C; tp=100µs; 180° half-sine wave
T _{stg}	Storage temperature	°C	-60÷80	
Tvj	Junction temperature	°C	-60÷150	
CHARACTERISTICS				
U _{FM}	Peak forward voltage	V	2,0	Tvj=25°C, ITM=3,14 ITAV
U _{F(TO)}	Threshold voltage	V	1,02	Tvj=150°C 1,57 ITAV < IT < 4,71 ITAV
R _T	Forward slope resistance	mΩ	0,21	

CHARACTERISTICS				
Symbols and parameters		Units	DL153-1250	Conditions
I _{RRM}	Repetitive peak reverse current	mA	50	T _{vj} =150°C, U _R = U _{RRM}
Q _{rr}	Recovered charge (typ)	µC	5000	T _{vj} =150°C I _F =1250 A dI _R /dt =10 A/µs U _R =100V
t _{rr}	Reverse recovery time (typ)	µs	50	
I _{rrm}	Peak reverse recovery current (typ)	A	200	
R _{thjc}	Thermal resistance junction to case	°C/W	0,02	Direct current, double side cooled

ORDERING					
	DL	153	1250	32	
	1	2	3	4	

1. Avalanche diode
2. Design version
3. Mean forward current, A
4. Voltage code (32=3200 V)



Mounting force : 19 ÷ 28 kN
Weight : 580 grams