



TET ESTEL AS
ESTONIA

**June
2013**

**Series
D473-2500**

**Rectifier Press-Pack
Diode
Type D473-2500**

Designed for rectifiers and industrial applications

Maximum mean forward current	I _{FAV}	2500 A						
Maximum repetitive peak reverse voltage	U _{RRM}	3400 ÷ 4800 V						
Reverse recovery time	trr (typ)	70 µs						
U _{RRM} , V	3400	3600	3800	4000	4200	4400	4600	4800
Voltage code	34	36	38	40	42	44	46	48
Tvj, °C				- 60 ÷ 150				

MAXIMUM ALLOWABLE RATINGS

Symbols and parameters		Units	D473-2500	Conditions
I _{FAV}	Mean forward current	A	2500 3970	Tc=103°C, Tc=55°C, 180° half-sine wave, 50 Hz
I _{FRMS}	RMS forward current	A	3925	Tc=103°C
I _{FSM}	Surge forward current	kA	42 45	Tvj=150°C Tvj=25°C
I ² t	Limiting load integral	kA ² s	8820 10125	Tvj=150°C Tvj=25°C
U _{RRM}	Repetitive peak reverse voltage	V	3400÷4800	Tj min≤Tvj≤Tjm 180° half-sine wave, 50 Hz
U _{RSR}	Non-repetitive peak reverse voltage	V	3500÷4900	Tj min≤Tvj≤Tjm 180° half-sine wave tp=10 ms, Single pulse
T _{stg}	Storage temperature	°C	-60÷80	
Tvj	Junction temperature	°C	-60÷150	

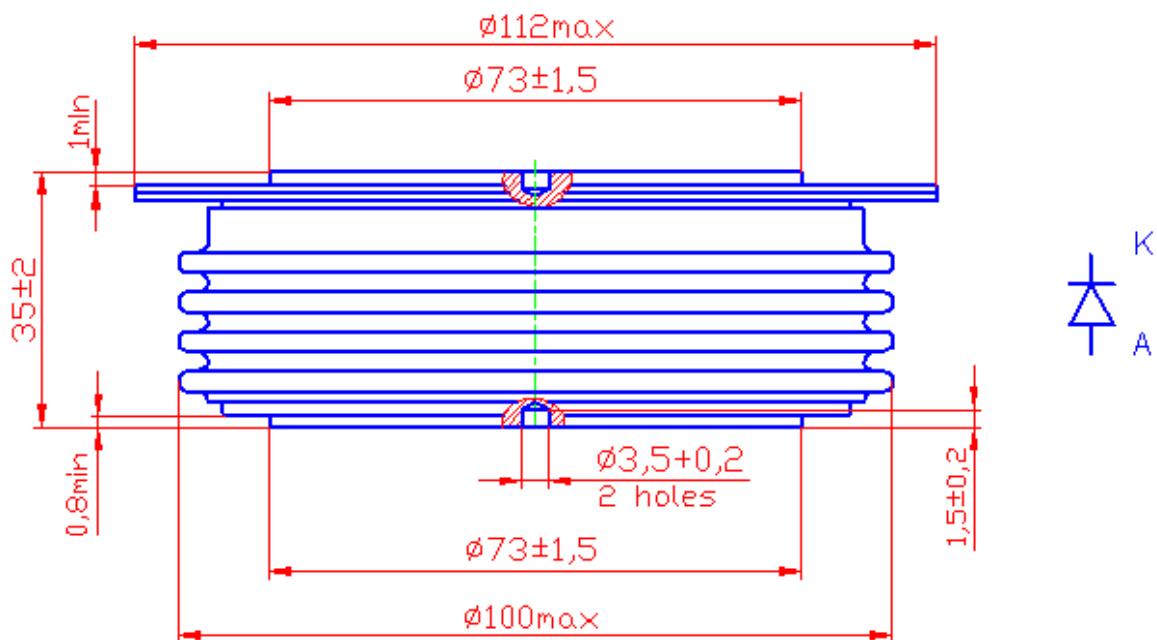
CHARACTERISTICS

U _{FM}	Peak forward voltage	V	2,0	Tvj=25°C, I _{TM} =3,14 I _{FAV}
U _{F(TO)}	Threshold voltage	V	0,95	Tvj=150°C 1,57 I _{FAV} < I _T <4,71 I _{FAV}
R _T	Forward slope resistance	mΩ	0,16	
I _{RRM}	Repetitive peak reverse current	mA	150	Tvj=150°C, UR= U _{RRM}

CHARACTERISTICS				
Symbols and parameters		Units	D473-2500	Conditions
Qrr	Recovered charge (typ)	µC	6000	Tvj=150°C If=2500 A diR/dt =10 A/µs UR=100V
trr	Reverse recovery time (typ)	µs	70	
Irrm	Peak reverse recovery current (typ)	A	170	
Rthjc	Thermal resistance junction to case	°C/W	0,0095	
				Direct current, double side cooled

ORDERING				
	D	473	2500	42
	1	2	3	4

1. Diode
2. Design version
3. Mean forward current, A
4. Voltage code (42=4200 V)



Mounting force : 36 ÷ 46 kN
Weight : 1700 grams