



TET ESTEL AS
ESTONIA

June
2013

Series
D373-3200

Rectifier Press-Pack
Diode
Type D373-3200

Designed for rectifiers and industrial applications

Maximum mean forward current					I_{FAV}	3200 A	
Maximum repetitive peak reverse voltage					U_{RRM}	2400 ÷ 3600 V	
Reverse recovery time					trr (typ)	60 µs	
U _{RRM} , V	2400	2600	2800	3000	3200	3400	3600
Voltage code	24	26	28	30	32	34	36
T _{vj} , °C	- 60 ÷ 160						

MAXIMUM ALLOWABLE RATINGS

Symbols and parameters		Units	D373-3200	Conditions	
I _{FAV}	Mean forward current	A	3200 4955	T _c =102°C, T _c =55°C, 180° half-sine wave, 50 Hz	
I _{FRMS}	RMS forward current	A	5024	T _c =102 °C	
I _{FSM}	Surge forward current	kA	60 65	T _{vj} =160°C T _{vj} =25°C	tp=10 ms U _R =0
I ² t	Limiting load integral	kA ² s	18000 21125	T _{vj} =160°C T _{vj} =25°C	
U _{RRM}	Repetitive peak reverse voltage	V	2400÷3600	T _{j min} ≤T _{vj} ≤T _{jM} 180° half-sine wave, 50 Hz	
U _{RSM}	Non-repetitive peak reverse voltage	V	2500÷3700	T _{j min} ≤T _{vj} ≤T _{jM} 180° half-sine wave tp=10 ms, Single pulse	
T _{stg}	Storage temperature	°C	-60÷80		
T _{vj}	Junction temperature	°C	-60÷160		

CHARACTERISTICS

U _{FM}	Peak forward voltage	V	1,8	T _{vj} =25°C, I _{TM} =3,14 I _{TAV}
U _{F(TO)}	Threshold voltage	V	1,25	T _{vj} =160°C 1,57 I _{TAV} < I _T <4,71 I _{TAV}
R _T	Forward slope resistance	mΩ	0,08	
I _{RRM}	Repetitive peak reverse current	mA	150	T _{vj} =160°C, U _R = U _{RRM}

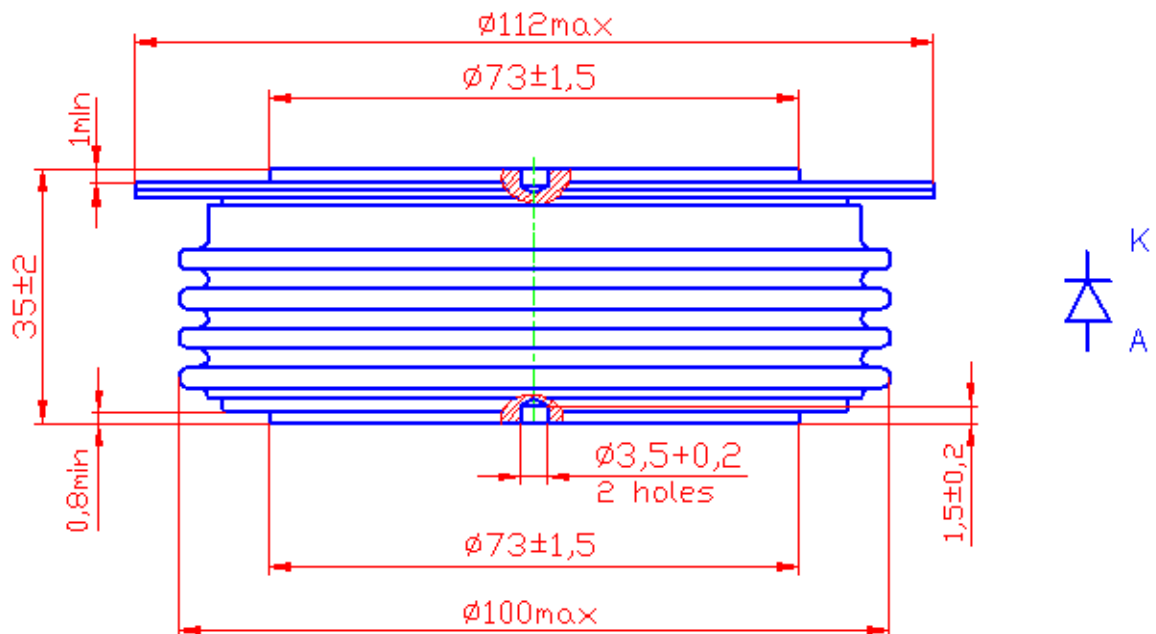
CHARACTERISTICS

Symbols and parameters		Units	D373-3200	Conditions
Q _{rr}	Recovered charge (typ)	μC	6500	T _{vj} =160°C I _F =3200 A di _R /dt =10 A/μs U _R =100V
t _{rr}	Reverse recovery time (typ)	μs	60	
I _{rrm}	Peak reverse recovery current (typ)	A	215	
R _{thjc}	Thermal resistance junction to case	°C/W	0,0095	Direct current, double side cooled

ORDERING

	D	373	3200	30	
	1	2	3	4	

1. Diode
2. Design version
3. Mean forward current, A
4. Voltage code (30=3000 V)



Mounting force : 36 ÷ 46 kN
Weight : 1700 grams