

Series
D353-1250**Rectifier Press-Pack
Diode
Type D353-1250**

Designed for rectifiers and industrial applications

Maximum mean forward current		I_{FAV} 1250 A					
Maximum repetitive peak reverse voltage		U_{RRM} 2200 -3400 V					
Reverse recovery time		trr (typ) 50 µs					
U _{RRM} , V	2200	2400	2600	2800	3000	3200	3400
Voltage code	22	24	26	28	30	32	34
Tvj, °C	- 60 ÷ 150						

MAXIMUM ALLOWABLE RATINGS

Symbols and parameters		Units	D353-1250	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	26 28	Tvj=150°C Tvj=25°C	tp=10 ms U _R =0
I ² t	Limiting load integral	kA ² s	3380 3920	Tvj=150°C Tvj=25°C	
U _{RRM}	Repetitive peak reverse voltage	V	2200÷3400	Tj min≤Tvj≤TjM 180° half-sine wave, 50 Hz	
U _{RSR}	Non-repetitive peak reverse voltage	V	2300÷3500	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		

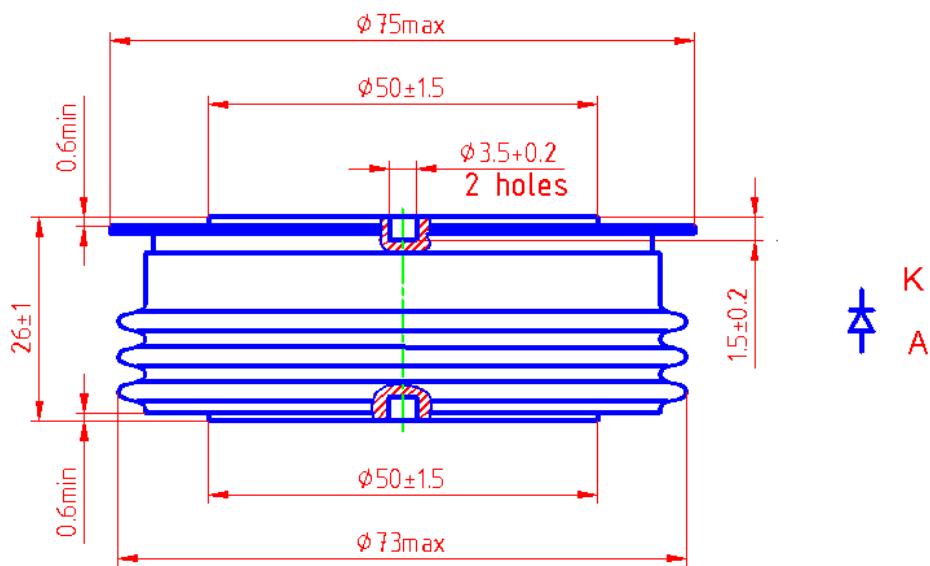
CHARACTERISTICS

U _{FM}	Peak forward voltage	V	2,0	Tvj=25°C, I _{TM} =3,14 I _{AV}
U _{F(TO)}	Threshold voltage	V	1,02	Tvj=150°C 1,57 I _{AV} < I _T <4,71 I _{AV}
R _T	Forward slope resistance	mΩ	0,21	
I _{RRM}	Repetitive peak reverse current	mA	75	Tvj=150°C, U _R = U _{RRM}

CHARACTERISTICS				
Symbols and parameters		Units	D353-1250	Conditions
Qrr	Recovered charge (typ)	µC	4800	Tvj=150°C If=1250 A diR/dt =10 A/µs UR=100V
trr	Reverse recovery time (typ)	µs	50	
Irrm	Peak reverse recovery current (typ)	A	192	
Rthjc	Thermal resistance junction to case	°C/W	0,02	

ORDERING					
	D	353	1250	30	
	1	2	3	4	

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



Mounting force : 19 ÷ 28 kN
Weight : 580 grams