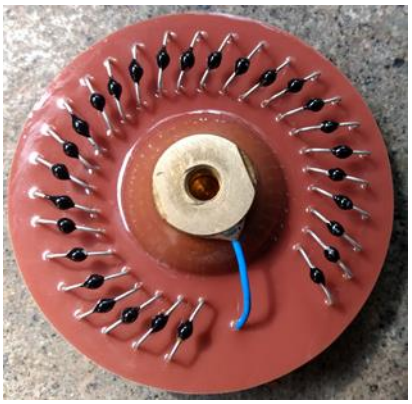
HV DIODE DISC RECTIFIER, ARE20A Datasheet



FEATURES:

- Epoxy molded
- High operating temperature
- Low leakage current
- Excellent stability
- Guaranteed avalanche energy absorption capability
- Use in Oil only

LIMITING VALUES:

SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX	UNIT
VRRM	repetitive peak reverse voltage		-	22.5	KV
VR	continuous reverse voltage		-	20	KV
IF	continuous forward current	@ 50°C in oil	-	1.4	A
IFRM	repetitive peak forward current	@ 50Hz @ Tamb = 100°C	-	5	A
IFSM	non-repetitive peak forward current	t = 10ms @ 25°C	-	50	A
Tstg	storage temperature		0	+ 80	Deg C

ELECTRICAL CHARACTERISTICS :

SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX.	UNIT
VF	continuous forward voltage drop	@ IF = 1.4A @ Tc = 25°C	-	31	V
V(BR)R	reverse avalanche breakdown voltage	@ IR = 100uA @ Tamb = 25°C	25	44	KV
IR	reverse leakage current	@ VR = 20KV @ Tamb = 25°C @ Tamb = 100°C	 - -	 5 20	 µA µA

Ameet Electro Systems, Plot # 27, Survey # 76/2A+B, Someshwar, Colony Satpur, NASHIK – 422007 INDIA
Phone: +91 9850992580 / 8485043797(whatsapp) E-mail: ameetsys@yahoo.com www.ameetsystems.com

DESIGN:

1. Electrical

High voltage disc rectifier consists of an internally integrated series connection of avalanche diodes.
Electric terminals of the disc for screw connection:

Anode (A) = Threaded hole, M8

Cathode (K) = Threaded bolt, M8

2. Mechanical

The avalanche diodes are embedded in an epoxy resin pot with axial metal terminals. The material used guarantee good insulation and resistance to corrosion.

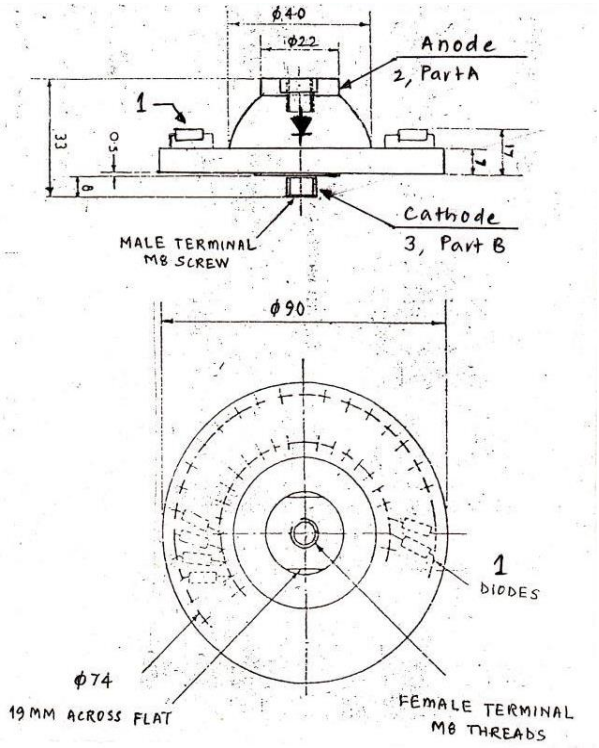
APPLICATION:

The High voltage disc rectifier is used to rectify high voltage AC supply and designed especially for -

- Dust precipitators
- X – Ray equipment

The construction of the disc with screw connection simplifies mechanical arrangement of desired rectifier circuit. The user's individual input voltage and current requirements can be satisfied by selection of the appropriate no. of discs.

OUTLINE DRAWING:



Ameet Electro Systems, Plot # 27, Survey # 76/2A+B, Someshwar Colony, Satpur, NASHIK – 422007 INDIA
Phone: +91 9850992580 / 8485043797(whatsapp) E-mail: ameetsys@yahoo.com www.ameetsystems.com