

Rectifier Diode

D170



Technical Data

Typical applications :All purpose high power rectifier diodes, Non-controllable rectifiers .
Free-wheeling diodes & welding

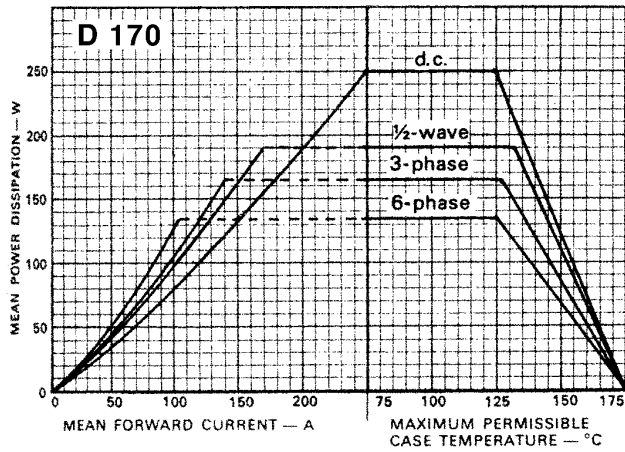
| Type No. | V_{RRM} (Volts) | V_{RSM} (Volts) |
|----------|----------------------|----------------------|
| D170/04 | 400 | 500 |
| D170/08 | 800 | 900 |
| D170/12 | 1200 | 1300 |
| D170/14 | 1400 | 1500 |
| D170/16 | 1600 | 1700 |

Features

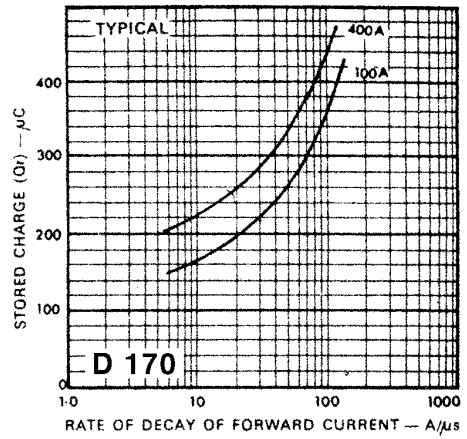
- Reverse voltage upto 1600V.
- Hermetic glass to metal seal
- C : Cathode to stud
- A : Anode to stud

| Symbol | Conditions | Values |
|---|--|----------------------------------|
| $I_{F(AV)}$ | Sin 180; $T_{case} = 132\text{ }^{\circ}\text{C}$ | 170 A |
| I_{FSM} | $T_{vj} = 175\text{ }^{\circ}\text{C}$; 10 ms with 50% VRRM | 4.5 KA |
| I^2t | $T_{vj} = 175\text{ }^{\circ}\text{C}$; 10 ms | 101000 A^2s |
| | $T_{vj} = 175\text{ }^{\circ}\text{C}$; 3 ms | 74000 A^2s |
| I_{RRM} | $T_{vj} = 175\text{ }^{\circ}\text{C}$ | 15 mA max |
| V_F | $T_{vj} = 25\text{ }^{\circ}\text{C}$; $I_F = 500\text{ A}$ | 1.30 V max |
| V_o | $T_{vj} = 175\text{ }^{\circ}\text{C}$ | 0.81 V |
| R_o | $T_{vj} = 175\text{ }^{\circ}\text{C}$ | 0.84 m |
| $R_{th(j-c)}$ $R_{th(c-h)}$ T_{vj} T_{stg} | d.c. | 0.20 $^{\circ}\text{C/W}$ |
| | Half wave | 0.22 $^{\circ}\text{C/W}$ |
| | 3 phase | 0.30 $^{\circ}\text{C/W}$ |
| | | 0.15 $^{\circ}\text{C/W}$ |
| | | 175 $^{\circ}\text{C}$ |
| | | -40.....+ 175 $^{\circ}\text{C}$ |
| Mounting torque | SI units | 10 Nm |
| Weight | Approx | 100 g |
| Case outline | | W / M |

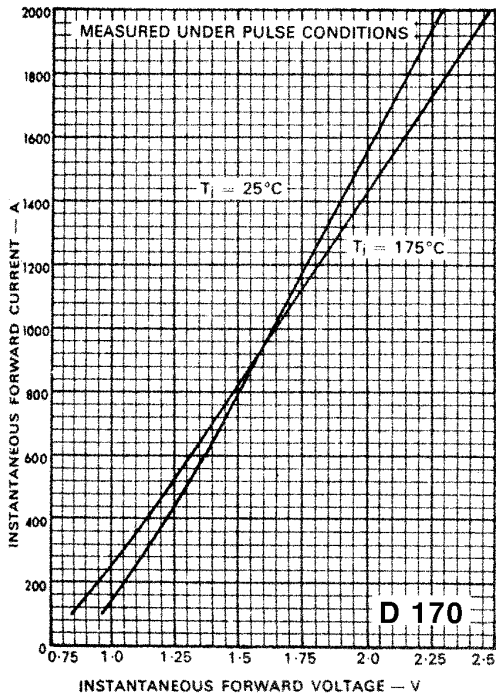




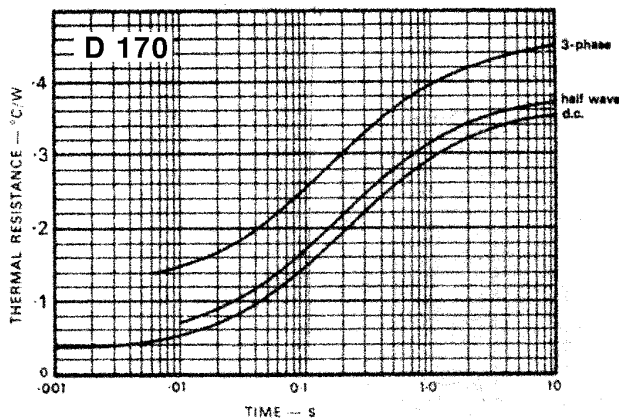
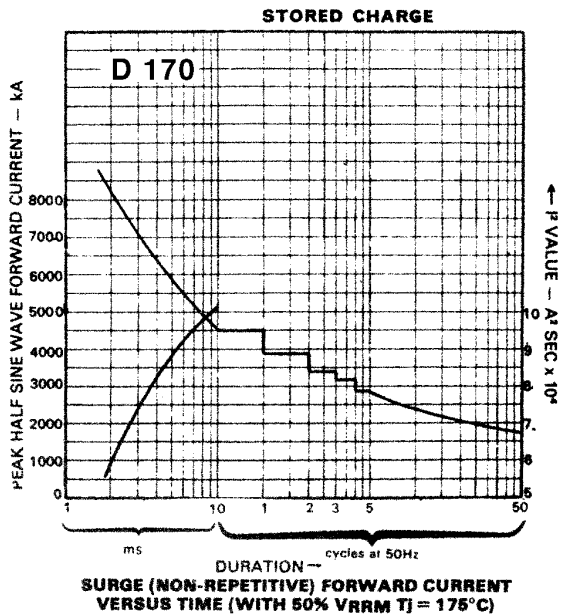
DISSIPATION CURVES



STORED CHARGE



MAXIMUM (LIMIT) FORWARD CHARACTERISTICS

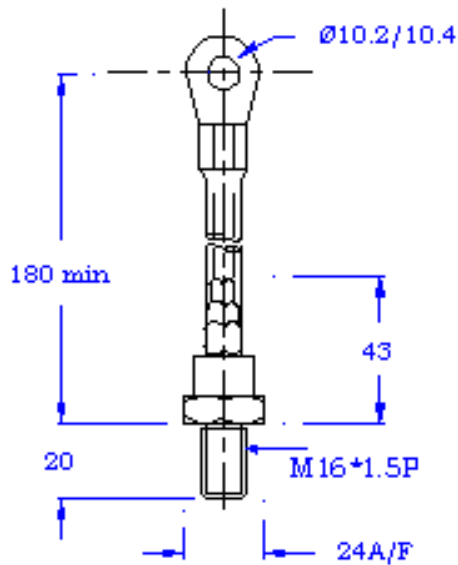


MAXIMUM (LIMIT) THERMAL RESISTANCE (JUNCTION TO HEATSINK SURFACE)

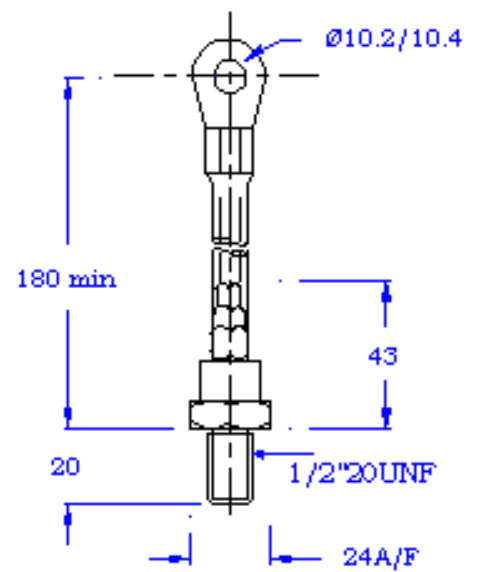
PACAKAGE DEATILS

DO NOT SCALE

All Dimensions in mm



Mounting Torque 10NM **W**



Mounting Torque 10NM **M**